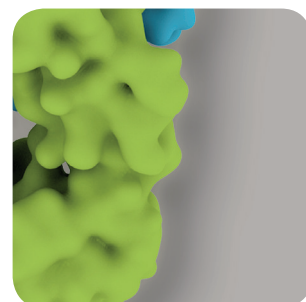
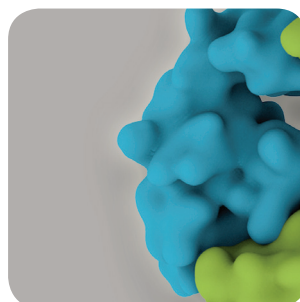
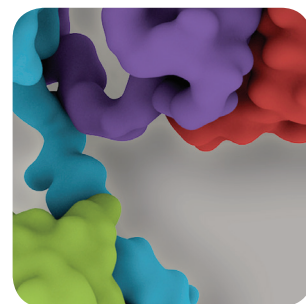
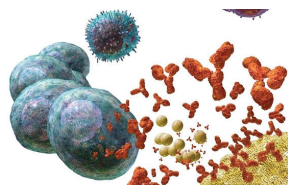


ProSci Antibody Catalog

HIGH PERFORMANCE ANTIBODIES ... AND MORE



Company Overview

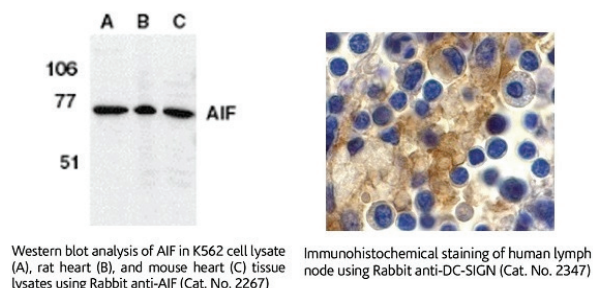
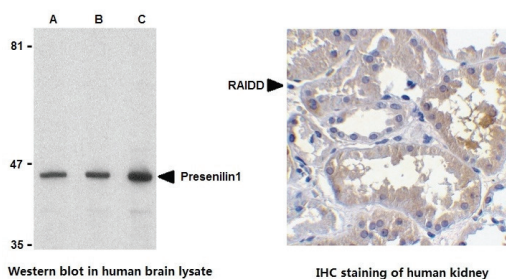


1. ProSci

Established in 1998, ProSci Incorporated is a leading provider of high performance antibodies and custom antibody services. As antibody manufacturers, we have over 25000 catalog products, spanning research areas such as Apoptosis, Signal Transduction, Immunology, Cancer, Neurobiology, Infectious Diseases, and Stem Cell.. We have produced more than 10,000 custom monoclonal and polyclonal antibodies for researchers worldwide in academia, biotechnology, diagnostics, and pharmaceutical industries. Operating our own USDA licensed and NIH/OLAW assured animal facility in San Diego, California and performing immunological services in-house allows us to maintain control and quality of the antibody development process from beginning to end. This also gives us the flexibility to tailor antibody production for almost any antibody need. Our rigorous validation process ensures the most credible and reproducible results with the least expenditure of your costly time, samples, and reagents.

2. Applications

ProSci Antibodies can be used for immunoblotting (Western Blot), Immunohistochemistry (IHC) Immunocytochemistry (ICC), ELISA Assay (ELISA) and Flow Cytometry (FACS).



3. Citations

ProSci Antibodies are sold world-wide in more than 30 countries. From this, our products and services have gained over 4000 citations globally. This has allowed ProSci to become a “gold” standard in antibody manufacturer.

4. Our Advantage

ProSci is dedicated to producing quality reagents for the life science community, world-wide. Our Research and Development team is the driving force behind our antibody services and product development. The extensive experience and expertise is carried over to all that we do. Through research, we are actively developing antibodies to novel targets and have brought the first commercially available antibodies to market for such targets as H5N1, H1N1, SARS, and pSAMHD1 to name a few.

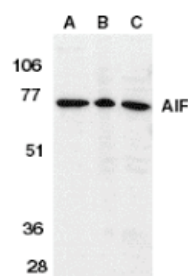
5. Select Citations

Publication	Institution	Catalog Number	Product Name	Product Type	Application
He et al. PNAS (2011) 108:20054-20059.	Suzhou University	XA-1023	RIP3 Antibody	MAB	WB
He et al. Cell (2009) 137:1100-1111.	Chinese Academy of Medical Sciences, Peking University	XA-1023	RIP3 Antibody	MAB	WB
Jaume et al. J Virol (2011) 85:10582-10597	HKU-Pasteur Research	PSI-1810	SARS Detection Set	Set	ELISA
Sang et al. Cell (2011) 145:513-528.	Genentech Inc, CA, USA	5835	TCTN2 Antibody	PAb	WB
Scurr et al. Cell (2010) 141:717-727.	University of Sydney	2289	BNIP3L Antibody	PAb	WB, IHC
Sabin et al. Cell (2009) 138:340-351.	Pennsylvania University	Custom Antibody	Ars2 Antibody	PAb	WB, IF
Zhang et al. Nature (2011) 471:373-376.	Thomas Jefferson University	2283	RIP3 Antibody	PAb	WB, IHC
Iwasaki et al. Nat Imm (2011) 12:1167-1175.	Osaka University	28-808 2121	Myc Antibody IKK beta Antibody	PAb	WB, ICC
Shimomura et al. Nat (2010) 464:1043-1047.	Columbia University	5155	b-galactosidase Antibody	PAb	WB

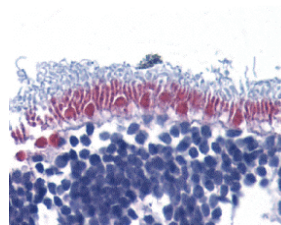
1. Apoptosis

Apoptosis, or programmed cell death, is critical to various biological processes such as embryonic development, normal cell turnover, and immune system development and functioning. The ability to mediate cell life and death has much therapeutic potential; however, further research is required to elucidate the cellular mechanisms, which influence apoptosis and cell survival. ProSci provides an extensive catalog of apoptotic antibodies that includes Death Receptors (DR4, DR5), Bcl-2 family member proteins (Bad, Bax, Bim, Puma), Caspase family proteins, p53 signaling pathway and apoptosis regulatory molecules and enzymes. Our most popular can be found below.

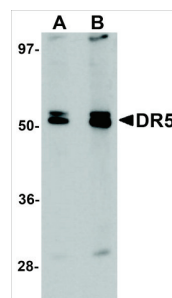
Product Name	Cat. No.	Application	Reactivity
AIF Antibody	2267	E, WB, IHC	H, M, R
AIFM3 Antibody	4539	E, WB, IHC	H, M, R
Bim Antibody	2065	E, WB, IHC	H, M, R
Bit1 Antibody	3603	E, WB, ICC	H, M, R
CARD8 Antibody	3187	E, WB, ICC	H
CARMA1 Antibody	3189	E, WB, IHC	H, M
DcR1 Antibody	2179	E, WB, ICC	H, M, R
DcR2 Antibody	2021	E, WB, ICC	H, M, R
DR4 Antibody	1139	E, WB, ICC	H
DR5 Antibody	2019	E, WB, ICC	H, M
FLIP Antibody	1161	E, WB, ICC	H, M, R
ILP-2 Antibody	3017	E, WB, ICC	H, M, R
NOD2 Antibody	2511	E, WB, IHC	H
PHAP I Antibody	3151	E, WB, IHC	H, M, R
PIKE Antibody	3321	E, WB, IHC	H, M
Smac Antibody	2409	E, WB, IHC	H, M, R
TACE Antibody	1131	E, WB, ICC	H, M, R
TACI Antibody	2395	E, WB, ICC	H
Trail Antibody	1113	E, WB, IHC	H
XIAP Antibody	3331	E, WB, IHC	H, M



Western blot analysis of AIF in K562 cell lysate (A), rat heart (B), and mouse heart (C) tissue lysates with AIF antibody (IN) at 1 µg/ml



Immunohistochemistry of AIF in human retina with AIF antibody at 10 µg/ml.



Western blot analysis of DR5 in HeLa (H) and K562 (K) cell lysates with DR5 antibody at 2 µg/mL.

Select Citations:

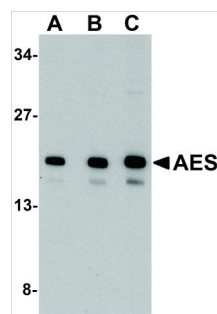
1. J. Biol. Chem (2009). 284: 31616-31624. (AIF)
2. Am J Physiol Heart Circ Physiol (2011). 301: H1519-H1530. (AIFM3)
3. Mol. Biol. Cell (2008). 19: 797-806. (BIM)
4. J. Biol. Chem (2011). 286: 14713-14723. (BIT-1)
5. J. Biol. Chem (2010). 285: 19921-19926. (CARD8)
6. PNAS (2009). 106: 14508-14513. (CARMA1)
7. Gut (2005). 54: 1590-1596 (DCR1), (DCR2).
8. Br J Ophthalmol (2007). 91: 1382-1384. (TRAIL), (DR5), (DR4)
9. Am J Physiol Cell Physiol (2009). 297: C759-C765. (CFLIP)
10. Cancer Res (2005). 65: 8224-8232. (ILP-2)
11. J. Immunol. (2008). 181: 2664-2671. (NOD2)
12. Cancer Res. (2006). 66: 2210-2218. (PHAPI)
13. Cancer Res., (2009). 69: 819-827. (GGAP2)
14. Cancer Epidemiol. Biomarkers Prev., (2009). 18: 2913-2922. (TACE)
15. Blood, (2009). 113: 5206-5216. (APRIL-ED2), (TACI)
16. Cancer Res. (2008). 68: 9394-9403. (TRAIL R1, R2, R3, R4), (cFLIP-S/L)
17. Mol. Cell. Biol., (2007). 27: 5673-5685. (SMAC), (XIAP)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

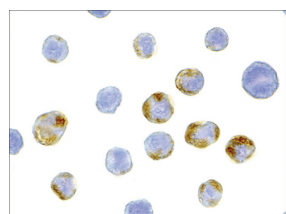
Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus
X=Xenopus Z=Zebrafish

2. Autophagy

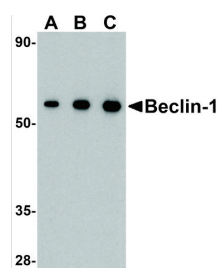
Autophagy is an essential cellular process characterized by the self-degradation of intracellular components through the actions of lysosomes. Autophagy can play either pro-survival or pro-death roles and is recognized for its therapeutic potential. Autophagy can be divided into multiple subtypes: macroautophagy and microautophagy, specific and non-specific autophagy, and pexophagy, mitophagy and chaperone-mediated autophagy. A small selection of ProSci's top selling autophagy related antibodies is found below.



Western blot analysis of AES in 293 cell lysate with AES antibody at (A) 1, (B) 2 and (C) 4 μ g/mL.



Immunocytochemistry of AES in HeLa cells with AES antibody at 10 μ g/mL.



Western blot analysis of Beclin-1 in 293 cell lysate with Beclin-1 antibody at (A) 0.5, (B) 1 and (C) 2 μ g/ml.

Product Name	Cat. No.	Application	Reactivity
AES Antibody	3607	E, WB, ICC	H, M, R
Ambra1 Antibody	4555	E, WB, IHC	H, M, R
APG7 Antibody	3615	E, WB, ICC	H, M
ATG10 Antibody	4399	E, WB	H, M, R
ATG12 Antibody	4421	E, WB, IHC	H, M, R
ATG16 Antibody	4425	E, WB, ICC	H, M, R
ATG5 Antibody	4441	E, WB, IHC	H, M, R
Bcl-2 Antibody	3335	E, WB, IHC	H, M
Beclin-1 Antibody	3613	E, WB, IHC	H, M, R
Beclin-1 Antibody	3611	E, WB, ICC	H, M
Caspase-8 Antibody	3473	E, WB, ICC	H, M, R
DAPK2 Antibody	2323	E, WB, IHC	H, M, R
DRAM Antibody	4033	E, WB, IHC	H, M, R
GNAI3 Antibody	XW-7212	ICC	H, M, R
IRGM Antibody	4545	E, WB, IHC	H, M, R
IRGM Antibody	4543	E, WB	H, M, R
LAMP-1 Antibody	3629	E, WB, IHC	H, M, R
LAMP-2 Antibody	3627	E, WB, ICC	H, M
PIST Antibody	3631	E, WB, IHC	H, M, R
PUMA Antibody	3041	E, WB, ICC	H, M
ZIPK Antibody	2067	E, WB, ICC	H, M, R

Select Citations:

1. Mol. Cancer Ther.,(2009). 8: 2914-2925(.EndoG)(Bcl-2) .
2. Am J Physiol Gastrointest Liver Physiol, (2010). 299: G614-G622. (Beclin 1)
3. J Leukoc Biol (2007). 81: 1599-1608. (anti-DAPK2)
4. Blood (2012). 119: 3142-3150. (DAPK2 Ab)
5. J Biol Chem (2010). 285: 10497-10507. (DRAM)
6. Blood (2011). 117: 6638-6649. (anti-GNAI3)
7. J Biol Chem (2007). 282: 31675-31687. (PUMA)(NOXA)
8. Cancer Res (2011). 71: 3152-3161.(DAPK3) (ZIPK)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

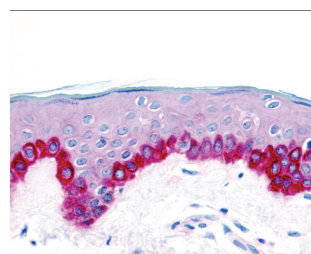
Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

X=Xenopus Z=Zebrafish

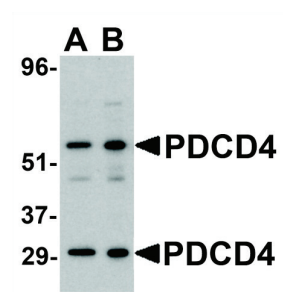
3. Cancer

Cancer encompasses a large family of diseases and is characterized by unregulated cell growth and metastasis. Current research focuses on elucidating the causes and biological mechanisms associated with cancer. ProSci offers a broad catalog of cancer antibodies and other related reagents, including targets involved in: Cancer Metabolism, Cell cycle, Drug Resistance, Growth Factors, Invasion, Onco-proteins, Signal Transduction and Cancer immunology.

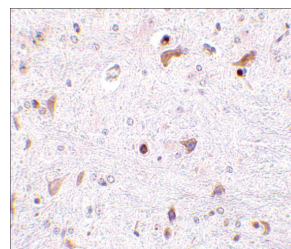
Product Name	Cat. No.	Application	Reactivity
Actin Antibody	45-198	E, WB, IF, IHC	H, M, R
ADAM10 Antibody	2051	E, WB, ICC	H
Apaf1 Antibody	2013	E, WB, IHC	H, M, R
Bid Antibody	3353	E, WB, IHC	H, M
Caspase12 Antibody	2325	E, WB, IHC	H, M, R
CEP164 Antibody	5083	E, WB, IHC	H, M, R
Chk2 Antibody	2391	E, WB, ICC	H, M, R
clAP Antibody	3325	E, WB, IHC	H, M
EndoG Antibody	3035	E, WB, IHC	H, M, R
ERK1/2 Antibody	XPS-1009	WB, IHC	H, M, R, X
Noxa Antibody	2437	E, WB, IHC	H, M, R
p53R2 Antibody	2383	E, WB, IHC	H, M, R
PDCD4 Antibody	3975	E, WB, IHC	H, M, R
PRL3 Antibody	45-126	E, WB	H, M, R
PRMT1 Antibody	29-207	E, WB, IHC	H, M, R
SELE Antibody	49-848	WB, IHC, IP	M, R
TLR6 Antibody	3651	E, WB, ICC	H, M
TRAIL Antibody	XP-5289	E, WB, N	H
ZCCHC11 Antibody	46-610	E, IHC	H, M, R
ZEB2 Antibody	5827	E, WB, ICC	H, M, R



Immunohistochemistry of Apaf1 in human skin tissue with Apaf1 antibody at 20 µg/mL.



Western blot analysis of PDCD4 in A-20 cell lysate with PDCD4 antibody at (A) 0.5 and (B) 1 µg/mL.



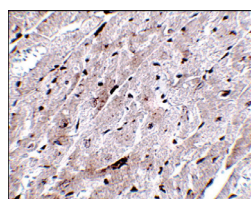
Immunohistochemistry of PDCD4 in mouse brain tissue with PDCD4 antibody at 2.5 µg/mL.

Select Citations:

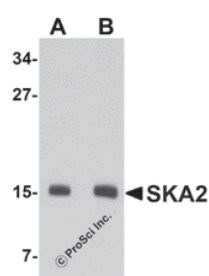
1. PNAS (2009).106: 9703-9708. (anti-cyto-actin)
2. J. Cell Biol., (2007). 178: 201-208. (ADAM10).
3. Clin. Cancer Res. (2007). 13: 1149-1153. (APAF-1)
4. Mol. Cancer Res. (2011). 9: 1356-1365. (BID), (IRF7)
5. Toxicology and Industrial Health (2011). 27: 19-28. (caspase12)
6. Development (2012). 139: 95-105. (Cep164)
7. J. Virol., (2008). 82: 9639-9646. (anti-Chk2)
8. J. Biol. Chem., (2010). 285: 2140-2151. (caspase/direct IAP)
9. PNAS (2008). 105: 12022-12027. (ENDO G)
10. Blood (2011). 117: 1947-1957. (ERK1/2), (BIM)
11. Mol. Cell. Biol. (2009). 29: 6149-6169. (NOXA), (PUMA)
12. Cancer Res. (2008). 68: 2652-2660. (p53R2).
13. Anticancer Res, (2008). 28: 2991-2996. (PDCD4)
14. Mol. Pharmacol. (2009). 76: 1238-1245. (anti-PRL-3)
15. Cardiovasc Res. (2007). 73: 181-189.(TLR6)
16. Cancer Res (2006). 66: 2785-2793. (TRAIL)
17. J. Biol. Chem. (2011). 286: 42381-42389. (ZCCHC11)
18. J. Neurosci. (2011). 31: 15294-15299. (ZEB2)

4. Cell Cycle

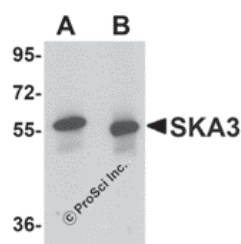
The Cell cycle is a series of events that take place within a cell leading to its division and duplication that produces 2 daughter cells. In cells that lack a nucleus, the cell cycle occurs via binary fission. In cells with a nucleus, the cell cycle can be divided into three periods: interphase, the mitotic (M) phase, and cytokinesis. Each phase of the cell cycle has a distinct set of specialized biochemical processes that prepare the cell for initiation of cell division. Our top selling antibodies against Cell Cycle Targets can be found below.



CEP164 in mouse heart tissue with CEP164 antibody at 5 µg/mL.



Western blot analysis of SKA2 in 3T3 cell lysate with SKA2 antibody at (A) 0.5 and (B) 1 µg/ml.



Western blot analysis of SKA3 in human testis tissue lysate with SKA3 antibody at (A) 0.5 and (B) 1 µg/ml.

Product Name	Cat. No.	Application	Reactivity
B-raf Antibody	5777	E, WB	H, M, R
CEP164 Antibody	5083	E, WB, IHC	H, M, R
CKIP1 Antibody	5435	E, WB	H, M, R
CUEDC2 Antibody	4839	E, WB, ICC	H, M, R
DCLK3 Antibody	4841	E, WB	H, M
FAM120A Antibody	5307	E, WB, IHC	H, M, R
Fibulin 3 Antibody	5213	E, WB, ICC	H, M, R
GOLPH3 Antibody	5443	E, WB	H, M, R
JMJD2A Antibody	5373	E, WB, IHC	H, M, R
JMJD2B Antibody	5375	E, WB	H, M, R
MACC1 Antibody	5197	E, WB, IHC	H, M, R
OCIAD2 Antibody	5463	E, WB, IF	H
PALB2 Antibody	5275	E, WB	H, M, R
RHAMM Antibody	6189	E, WB, IHC	H, M, R
SKA1 Antibody	5401	E, WB	H, M, R
SKA2 Antibody	5403	E, WB	H, M
SKA3 Antibody	5405	E, WB	H, M, R
ST3gal6 Antibody	5169	E, WB, ICC	H, M, R
ZBRK1 Antibody	4817	E, WB	H, M, R

Select Citations:

1. J Biol Chem (2010). 285: 26461-26474. (anti-RHAMM)
2. J Cell Biol (2006). 175: 1017-1028. (Rhamm)
3. Cancer Res. (2011). 71: 2926-2937. (anti-SKA2)
4. J Virol (2011). 85:1495-1506. (HPIV1)
5. J Virol (2010). 84: 1489-1503. (antiserum)
6. J Biol Chem (2012). 287:7411-7426. (CHCM1/CHCHD6)
7. J Bacteriol (2012). 194:413-425. (EF-P)
8. PNAS (2011), 108: 3630-3635. (Polyjet liposomes).
9. J Immunol (2011) 186: 2127- 2137. (HRP-anti-rabbit IgG)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

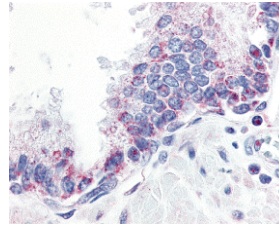
Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

X=Xenopus Z=Zebrafish

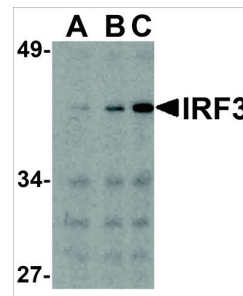
5. Cytokines, Chemokines, & Growth Factors

Cytokines, Chemokines and Growth Factors are proteins that direct the development, maturation, localization, interactions, activation and life span of immune cells. Because of their essential role in regulating both immunity adaptive and innate, there is great number and variety in this class proteins, with each capable of creating their own set of biological effects. Below is an assortment of ProSci's offering of cytokines, chemokines, and growth factors.

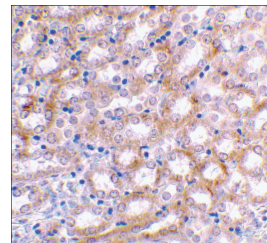
Product Name	Cat. No.	Application	Reactivity
APRIL Antibody	2415	E, WB, IHC	H, M
BAFF Antibody	2221	E, WB, ICC	H, M, R
BAFF Receptor Ab	3097	E, WB, IHC	H, M, R
CCR5 Antibody	1112	E, WB, IHC	H
CTRP7 Antibody	3579	E, WB, ICC	H, M, R
CX3CR1 Antibody	2093	WB, IHC, FACS	H, M, R
CXCR4 Antibody	1009	WB, ICC, IP	H, M
GFR alpha 1 Antibody	1133	E, WB, IHC	H, M, R
GFR alpha 2 Antibody	1135	E, WB, ICC	H, M, R
GFR alpha 3 Antibody	1137	E, WB, IHC	H, M, R
IL-1RAcP Antibody	2131	E, WB, ICC	H
IL-21 Antibody	2465	E, WB, ICC	H
IL-21 Receptor Ab	2469	E, WB, IHC	H, M, R
IL-22 Receptor Ab	2497	E, WB, ICC	H, R
IRF3 Antibody	3397	E, WB, IHC	H, M
IRF8 Antibody	3401	E, WB	H, M, R
Neurturin Antibody	1121	E, WB, IHC	H
NGFR Antibody	3593	E, WB, ICC	H, M
RANTES Antibody	XP-5257	E, WB, N	H
TIM-1 Antibody	3809	E, WB, IHC	H, M
VEGF Antibody	38-206	E, WB, N	R



Immunohistochemistry of APRIL in human prostate tissue with APRIL antibody at 10 µg/ml.



Western blot analysis of IRF3 in Ramos whole cell lysate with IRF3 antibody at (A) 1, (B) 2, and (C) 4 µg/mL.



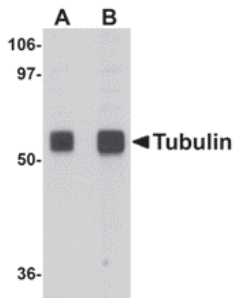
Immunohistochemistry staining of mouse kidney using IRF3 antibody at 2 µg/mL.

Select Citations:

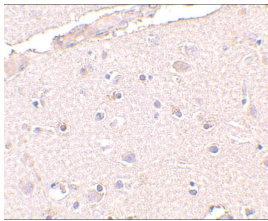
1. Blood, (2009). 113: 5206 – 5216. (APRIL-ED2), (TACI)
2. Int. Immunol. (2004). 16: 467 - 475. (BAFF (CT))
3. PNAS (2009). 106: 13945 - 13950. (BAFF-R)
4. Blood (2011). 118: 5824 - 5831. (CCR5)
5. J Rheumatol (2009). 36: 1158 - 1165. (CX3CR1)
6. J. Immunol. (2012). 188: 1108 - 1116. (CX3CR1)
7. J. Nucl. Med. (2009). 50: 1124 - 1130. (CXCR4)
8. Clin. Cancer Res. (2009). 15: 3014 - 3022. (CXCR4)
9. J. Cell Sci. (2010). 123: 1081 - 1088. (CXCR4)
10. J. Immunol. (2007). 178: 5957 – 5965. (IL-21)
11. FASEB J. (2010). 24: 2558 - 2566. (RANTES)
12. J. Exp. Med. (2005). 202: 955 - 965. (TIM-2)
13. Reproduction (2011). 142: 879 - 892. (VEGF)

6. Homeostasis

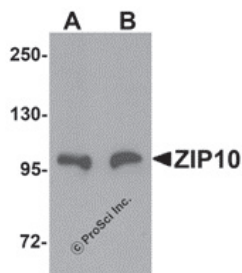
A state of equilibrium, as in an organism or cell, maintained by self-regulating processes is known as Homeostasis. This includes, but is not limited to stability of cells that maintain membrane potential, ion transport through the membrane channels, pH value of dynamic equilibrium. From α -Tubulin to beta-Actin, ProSci's offering includes multiple antibodies pertinent to this field of research. A compilation of our top sellers can be found below.



Western blot analysis of Tubulin in rat brain tissue lysate with Tubulin antibody at (A) 0.5 and (B) 1 μ g/ml.



Immunohistochemistry of BRCC36 in human brain tissue with BRCC36 antibody at 2.5 μ g/mL



Western blot analysis of ZIP10 in human spleen tissue lysate with ZIP10 antibody at (A) 1 and (B) 2 μ g/mL.

Product Name	Cat. No.	Application	Reactivity
α -tubulin Antibody	5103	E, WB	H, M, R
BACE1 Antibody	48-358	IHC	H
Beta-actin Antibody	3777	E, WB, ICC	H, M, R
BRCC36 Antibody	4331	E, WB, IHC	H, M, R
GSTP1 Antibody	4413	E, WB, IHC	H, M, R
MECP2 Antibody	XW-7368	WB	H, M, R
MYBPC1 Antibody	6679	E, WB	H, M, R
MYBPC2 Antibody	5651	E, WB, IHC	H, M
PTK7 Antibody	4299	E, WB, IHC-P	H, M, R
SCO1 Antibody	4043	E, WB, IHC	H, M, R
SCO2 Antibody	4045	E, WB, IHC	H
SQSTM1 Antibody	5449	E, WB, IHC	H, M, R
TBC1D1 Antibody	4231	E, WB	H
TEM1 Antibody	4359	E, WB, IHC	H, M, R
TEM2 Antibody	4361	E, WB, IHC	H, M, R
TEM4 Antibody	4367	E, WB, IHC	H
TEM5 Antibody	4369	E, WB, IHC	H, R
TREX1 antibody	4969	E, WB, IHC	H, M, R
ZBED3 Antibody	5123	E, WB	H, M, R
ZIP10 Antibody	4991	E, WB, IHC	H, M, R
ZIP11 Antibody	5001	E, WB, IHC	H, M, R

Select Citations:

1. PNAS (2008). 105: 6415 - 6420. (BACE1)
2. J Biol Chem (2005). 280:32957-32967. (hBACE1)
3. J Biol Chem (2003). 278: 48713 - 48719. (BACE1)
4. Mol Cell Biol (2007). 27: 4347-4354. (Anti-b-actin) (anti-aP2)
5. J Biol Chem (2011). 286: 11734-11745. (BRCC36)
6. J Biol Chem (2011). 286: 7535-7547. (anti-BRCC36)
7. Toxicol Sci (2010). 116: 549 - 561. (Anti-GSTP1)
8. J Neurosci (2011). 31: 10359 - 10370. (anti-MeCP2)
9. Circ Res (2011). 109:141-150. (anti-cMyBP-C)
10. Endocrinology (2006). 147: 2138 - 2146. (Rbp3)
11. J Cell Sci (2008). 121: 609 - 617. (Tbc1d10c)
12. Mol Cancer Ther (2008). 7: 2536 - 2546. (anti-TEM2) (anti-TEM4) (anti-TEM5)
13. Invest Ophthalmol Vis Sci (2009). 50: 3580 - 3588. (anti-ZBED4)
14. J Nutr (2011). 141: 359 - 365. (anti-rabbit Zip10)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

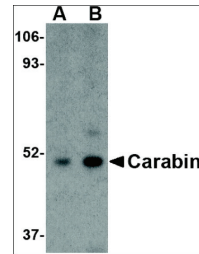
X=Xenopus Z=Zebrafish

7. Immunology

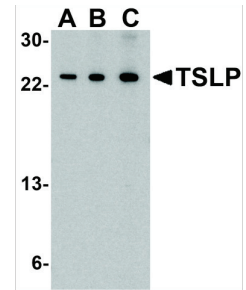
Immunology is a complex research area that encompasses all aspects in the immune system in organisms. This includes innate immunity, adaptive immunity and immune regulation in response to multiple disease types (cancer, autoimmune disease and infections of foreign pathogens) as well as regulation in an organisms native state. ProSci offers a wide range of immunology antibodies, including popular cell surface markers (CD molecule

Product Name	Cat. No.	Application	Reactivity
AID Antibody	3091	E, WB, ICC	H, M
Carabin Antibody	4267	E, WB, IHC	H, M
CD19 mAb	32-129	WB, IHC	H
CD68 mAb	48-024	IHC	Mk, R
IFN-beta Antibody	4243	E, WB, IHC	H, M
IL-17 (IN) Antibody	4887	E, WB	H, M
IL-23 (CT) Antibody	3793	E, WB, ICC	H, M
IRAK (CT) Antibody	1007	WB, ICC, IP	H, M, R
IRAK1 Antibody	49-435	WB, IHC, IP	M, R
IRF3 (CT) Antibody	3397	E, WB, IHC	H, M
IRF7 Antibody	3941	E, WB, IHC	H, M, R
MDA5 Antibody	4037	E, WB, IHC	H, M
ORAI1 Antibody	4041	E, WB, IHC	H, M
ORAI1 Antibody	4281	E, WB, IHC	H, M
ORAI2 Antibody	4111	E, WB, ICC	H, M
ORAI3 Antibody	4117	E, WB, ICC	H, M, R
PKR Antibody	3947	E, WB, IHC	H, M, R
STIM1 Antibody	4119	E, WB, IHC	H, M, R
STIM2 Antibody	4123	E, WB, IHC	H, M, R
TSLP Antibody	4023	E, WB, IHC	H, M

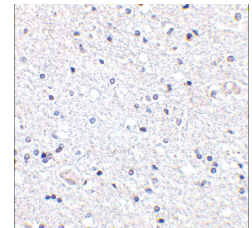
Western blot analysis of Carabin in Daudi cell lysate with Carabin antibody at (A) 1 and (B) 2 µg/ml.



Western blot analysis of TSLP in A-20 cell lysate with TSLP antibody at (A) 0.5, (B) 1 and (C) 2 µg/mL



Immunohistochemistry of TSLP in human brain tissue with TSLP antibody at 2.5 µg/mL.

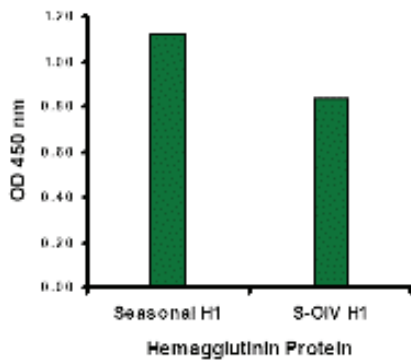


Select Citations:

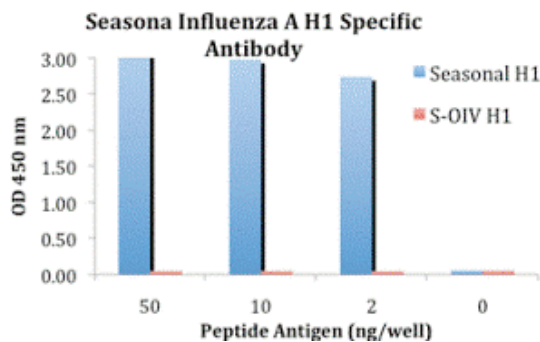
1. J. Immunol. (2010). 184: 1543 - 1551. (AID)
2. Cancer Res. (2009). 69: 8902 - 8909. (CARABIN)
3. J. Immunol. (2009).182: 3540 - 3547. (CD19) (BR3), (Bcl-6)
4. PNAS (2011). 108: 14914 - 14919. (CD68)
5. J. Virol. (2012). 86: 610 - 614. (IFN-beta)
6. J. Immunol.(2010). 184: 5502 - 5509. (IRAK-M), (IRAK-1)
7. J. Immunol. (2009). 182: 5081 – 5087. (MyD88), (IRAK1)
8. Mol. Cancer Res. (2011). 9: 1356 - 1365. (Bid), (IRF7)
9. J. Virol., (2008). 82: 7977 - 7987. (RIG-I), (MDA5)
10. J. Immunol. (2010). 185: 1283 - 1294. (MDA5)
11. J. Virol. (2010). 84: 372 - 379. (MDA5)
12. J. Leukoc. Biol. (2011). 89: 57 - 62. (STIM2), (Orai1), (Orai2), (Orai3)
13. J. Neurosci. (2011). 31: 3536 - 3549. (STIM1), (Orai1)
14. FASEB J. (2009). 23: 2425 - 2437. (Orai1,2,3-NT)
15. Blood (ASH Annual Meeting Abstracts) (2010). 116: 3190. (STIM1)
16. Invest. Ophthalmol. Vis. Sci. (2010). 51: 3076 - 3082. (TSLP)

8. Infectious Disease

Infectious Diseases are illnesses caused by viruses, bacteria, fungi, protozoa, and parasites. Some examples of illnesses stemming from these agents are respiratory, gastrointestinal, and sexually transmitted diseases. Each type of disease offers different avenues of infection and different approaches to its control. A sampling of ProSci Infectious Disease antibodies and antigens is listed below.



Seasonal Influenza A Hemagglutinin antibody (2 µg/ml) recognizes seasonal influenza A (H1N1), and to a lesser extent swine-origin influenza A (S-OIV, H1N1), Hemagglutinin protein in ELISA.



ELISA results using Seasonal H1N1 Hemagglutinin antibody at 1 µg/ml and the blocking and corresponding peptides at 50, 10, 2 and 0 ng/ml.

Select Citations:

1. J Immunol (2009). 182: 3063-3071. (H5N1 virus)
2. Mol Biol Cell (2007).18: 2491 - 2502. (anti-beta-gal)
3. Anticancer Res (2004). 24: 3711-3714. (CXCR6)
4. J Virol (2007). 81:13922-13926. (anti-DDX3)
5. J Virol (2011). 85: 1214-1223. (H1N1)
6. J Virol (2007). 81: 11560-11568. (H5N1)
7. Clin Vaccine Immunol (2009).16: 1624-1632. (anti-RVFPV)
8. PNAS (2006). 103: 19134-19139. (anti-TRIM5)
9. Mol Cell Biol (2010). 30: 1357-1367. (UNG1)
10. J Virol (2009). 83: 11201-11210. (WNV protein C)

Product Name	Cat. No.	Application	Reactivity
Avian Influenza A M2 Antibody	4333	E, WB	V
Avian Influenza Neuraminidase Antibody	3423	E	V
Avian Influenza Neuraminidase Antibody	3421	E	V
beta-Galactosidase Antibody	5155	E, WB	Bc
CXCR6 Antibody	42-573	E, WB	H, M, R
DDX3 Antibody	3759	WB, ICC	H, M, R
H1N1 Neuraminidase Antibody	5245	E	V
HA tag Antibody	XW-8082	WB	Bc
Rift Valley Fever Virus Antibody	4521	E	V
Rift Valley Fever Virus Antibody	4519	E	V
Seasonal H1N1 Hemagglutinin Antibody	5239	E	V
TRIM5 alpha Antibody	3249	E, WB, IF	H
UNG1 Antibody	3863	E, WB, IHC	H, M, R
WNV Core Antibody	3433	E	V

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

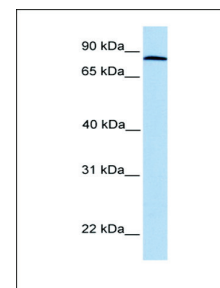
X=Xenopus Z=Zebrafish

9. Membrane Proteins

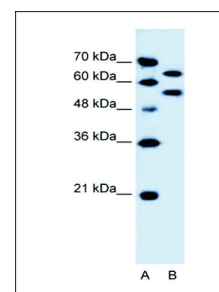
The function of membrane proteins perform a variety of functions that are vital to an organisms survival. Whether being employed as a membrane receptor, transporting ions across the cell membrane, or acting in cell adhesion allowing cells to identify and interact, the function of each membrane protein is equally important. An collection of ProSci's leading membrane proteins antibodies is shown here.

Product Name	Cat. No.	Application	Reactivity
ADAM7 Antibody	30-902	E, WB	H
ADAMTS4 Ab	29-597	E, WB, IHC	H, M, R
AFG3L2 Antibody	26-164	E, WB	H, M, R
CACNB4 Antibody	28-224	E, WB	H
CACNG1 Antibody	28-713	E, WB	H, M, R
MBOAT1 Antibody	26-324	E, WB	H
PANX1 Antibody	29-800	E, WB, IHC	H
PANX1 Antibody	29-800	E, WB, IHC	H
PANX2 Antibody	29-799	E, WB, IHC	H, M, R
PAP2D Antibody	25-982	E, WB	H, M, R
PAQR6 Antibody	26-459	E, WB	H, M, R
SIL1 Antibody	31-363	E, WB, IHC	H
SIL1 Antibody	26-016	E, WB	H, M, R
SILV Antibody	30-232	E, WB, IHC	H, M, R
TRAM2 Antibody	26-173	E, WB	H, M
TRPM3 Antibody	28-318	E, WB	H, M, R
TRPM5 Antibody	28-257	E, WB	H, M
TYRP1 Antibody	29-982	E, WB	H, M, D
UBA5 Antibody	30-553	E, WB	H, M, R
UBE2D1 Antibody	29-819	E, WB	H, M, R

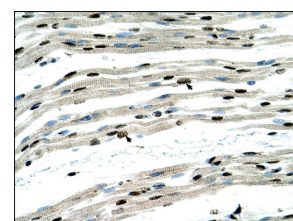
Western blot analysis of ADAM7 in Hela Cell Lysate using ADAM7 antibody at 1 µg/ml (12% gel).



Western blot analysis of SIL1 in HepG2 Cell Lysate using SIL1 antibody at 0.25 µg/ml (12% gel). Marker in lane A.



Antibody dilution (concentration) 4-8 µg/mL

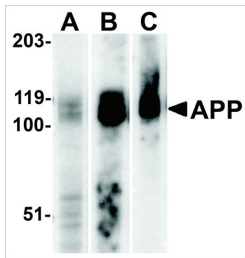


Select Citations:

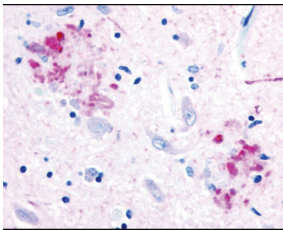
1. Am J Physiol Cell Physiol. (2008). 295: C752 - C760. (PANX1)
2. J. Biol. Chem. (2009) 284: 29391 - 29398. (MyD88), (TRAM)
3. J. Neurosci. (2007). 27: 14216 - 14227. (DAT-1)
4. J. Biol. Chem. (2007). 282: 34139 - 34147. (RESISTIN)
5. J. Biol. Chem. (2010). 285: 24529 - 24537. (AKR1D1)
6. Mol. Biol. Cell (2010). 21: 1753 - 1762. (TPB2P)
7. Mol. Cancer Res. (2010). 8: 57 - 66. (DOC45)
8. J. Bacteriol. (2007). 189: 7392 - 7398. (NFIH)
9. Blood (2006). 107: 341 - 348. (SHPS-1)

10. Neurobiology

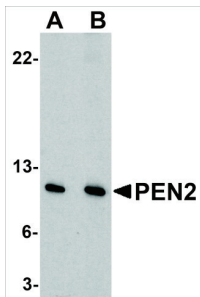
Neuroscience is the study of the nervous system, ranging from embryonic development to studies of neurodegeneration, neuroendocrinology, synaptic transmission and more. This complex field requires a multi-associative approach to research, including fields such as biochemistry, psychology and disease pathology. ProSci offers a broad catalog of neurobiology antibodies and other related reagents, including targets involved in: Neural Stem Cell Markers, Neural Signal Transduction, Neurodegenerative Disease, Neural Regeneration, Growth and Development, Neurotransmission, Neural Development, Neuronal Markers.



Western blot analysis of APP in human (A), mouse (B), and rat (C) brain tissue lysates with APP antibody at 1 µg/mL.



Immunohistochemistry of APP in human brain (Alzheimer's disease) tissue with APP antibody at 10 µg/ml.



Western blot analysis of PEN2 in A-20 cell lysate with PEN2 antibody at (A) 0.5 and (B) 1 µg/mL.

Product Name	Cat. No.	Application	Reactivity
APP Antibody	2133	E, WB, IHC	H, M, R
BACE Antibody	2253	E, WB, ICC	H, M
BACE2 Antibody	2247	E, WB, IHC	H, M, R
CNRIP1 Antibody	7303	E, WB, IF, IHC-P	H, M, R
DISC1 Antibody	4295	E, WB, ICC	H, M
FEZ1 Antibody	4265	E, WB	H, M, R
KLHL1 Antibody	3015	E, WB, IHC	H, R
Nhe-1 Antibody	4377	E, WB, IHC	H, M, R
Nhe-1 Antibody	4379	E, WB, IHC	H, M, R
NogoA Antibody	4089	E, WB, IHC	H, M, R
NPTX2 Antibody	4573	E, WB, IHC	H, M, R
PEN2 Antibody	3981	E, WB, IHC	H, M, R
Precerebellin Antibody	3587	E, WB, ICC	H, M, R
Precerebellin Antibody	3589	E, WB, IHC	H, M, R
SAPAP3 Antibody	4411	E, WB, IHC	H, M, R
SAPAP3 Antibody	4411	E, WB, IHC	H, M, R
TMEM16B Antibody	5421	E, WB, IHC	H, M, R
TMP21 Antibody	3997	E, WB, IHC	H, M, R
TOCA-1 Antibody	4373	E, WB, IHC	H, M, R
VGF Antibody	4611	E, WB, IHC	H, M, R

Select Citations:

1. J Neurosci (2008). 28: 9287 - 9296. (anti-APP)
2. Brain (2011). 134: 3697 - 3707. (BACE)
3. J Biol Chem (2007). 282: 11982-11995. (anti-BACE1) (BACE2)
4. Cancer Res (2009). 69: 2141 - 2148. (pY-VE-cadherin)
5. PNAS (2009). 106: 14040-14045. (anti-FEZ1)
6. Am J Physiol Cell Physiol (2010). 298: C1353 - C1362. (KLHL1)
7. J Biol Chem (2010). 285: 8527-8536. (Pen-2).
8. PNAS (2011) 108: 2587-2592. (SAPAP3)
9. J Biol Chem (2010). 285: 21888-21901. (anti-SAPAP3)
10. Mol Biol Cell (2010). 21: 1398-1408. (anti-p23/Tmp21)
11. J Immunol (2009). 182: 4917 - 4930. (anti-Toca1)(anti-FNBP1L)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

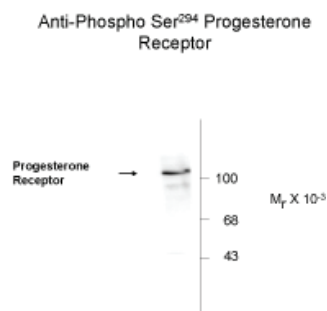
Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

X=Xenopus Z=Zebrafish

11. Phospho-Specific

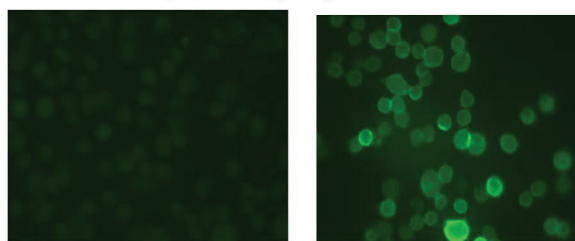
Essential for pathway activation in cellular regulation, cell signaling and growth, Phosphorylation involves the addition of phosphate groups to proteins, most commonly at a serine (S), threonine (T) or tyrosine (Y) residue by a kinase. ProSci offers a range phospho-specific antibodies, including such popular targets as focal adhesion kinase (FAK), protein kinase C (PKC), microtubule-associated protein kinase (MEK), microtubule tau protein (Tau).

Product Name	Cat. No.	Application	Reactivity
Alpha Synuclein [pS129] Antibody	50-241	WB	B, D, H, M, R
Aquaporin 2 [pS261] Antibody	50-225	IHC, WB	B, Ck, D, H, M, R
DARPP 32 [pT34] Antibody	XPS-1004	WB	H, M, R, X
DARPP 32 [pT75] Antibody	XPS-1005	WB	H, M, R
EphrinB [pY317] Antibody	50-223	WB	B, Ck, H, M, R, X, Z
MLF1IP Antibody	49-581	E, ICC, IHC, IP, WB	B, Chm, D, H
GluR1 [pS845] Antibody	XPS-1013	IF, IHC, WB	H, M, R
MARCS [pS152/156] Antibody	XPS-1015	WB	H, M, R
MEK5 [pS311/T315] Antibody	50-245	WB	B, D, H, M, R, X, Z
NMDA NR2B [pY1472] Antibody	XPS-1019	WB	H, M, R
p53 (pS392) Antibody	XPS-1021	WB	H, Mk
Potassium Channel [pS503] Antibody	50-235	IHC, WB	M, R
Progesterone [pS190] Antibody	XPS-1023	IHC, WB	H
Progesterone Receptor [pS294]Antibody	XPS-1024	WB	H
Serine Antibody	54-207	WB, IHC, ICC	H, M, R
Synapsin [pS62/67] Antibody	50-240	WB	B, M, R



Western blot of whole T47D lysate prepared from cells that had been incubated in the presence of synthetic progestin agonist R5020 (500nm) showing phosphospecific immunolabeling of the ~90k PR-A isoform and the ~120k PR-B isoform of the progesterone receptor phosphorylated at Ser294.

Anti-pS503 Potassium Channel



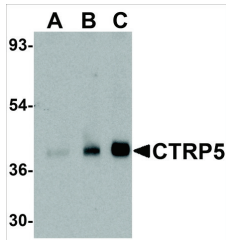
IHC staining of medial nucleus of the trapezoid body (MNTB) cells with the phospho-Ser503 Kv3.1 subunit antibody. The left panel shows control cells. The right panel shows cells that have been exposed to the protein kinase C activator PMA.

Select Citations:

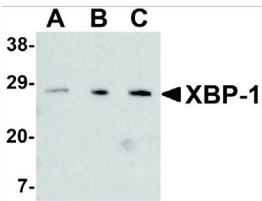
1. Nucleic Acids Res. (2011). 39: 9224-9237. (serine 114)
2. J. Cell Biol. (2007). 179: 1301 - 1309. (PS365-Cx43)
3. Endocrinology (2008). 149: 1214 - 1226. (CK2)
4. Infect. Immun. (2011). 79: 2345 - 2355. (SSTD)
5. Mol. Biol. Cell (2010). 21: 1671 - 1685. (alphaP-T1172)

12. Signal Transduction

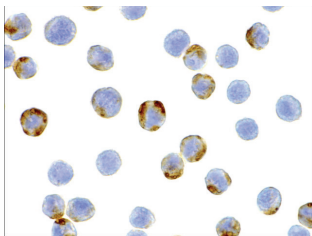
Signal Transduction (also known as cell signaling) is the communication of a cell exterior to interior (and vice versa) by the transmission of molecular signals. Specific Receptors activated within the cell, which then trigger a biochemical chain of events within the cell, thus creating a response. ProSci offers antibodies for the most heavily studied signaling pathways, including pathways such as Akt Signaling, Jak/Stat Signaling, TLR Signaling, and Notch Signaling.



Western blot analysis of CTRP5 in human brain cell lysate with CTRP5 antibody at (A) 1, (B) 2, and (C) 4 μ g/mL.



Western blot analysis of XBP-1 in PC-3 cell lysate with XBP-1 antibody at (A) 0.5, (B) 1 and (C) 2 μ g/mL.



Immunocytochemistry of XBP-1 in HepG2 cells with XBP-1 antibody at 2 μ g/mL.

Product Name	Cat. No.	Application	Reactivity
ATG7 Antibody	49-385	WB, IHC, IF	H
CTRP5 Antibody	3571	E, WB, IHC	H, R
GAPDH Antibody	3781	E, WB, IHC	H, M, R
HSL LIPE Antibody	XG-6128	WB	H, M, R
IL-32 Antibody	3749	E, WB, IHC	H, M
IRAK Antibody	1007	WB, ICC, IP	H, M, R
IRAK2 Antibody	3595	E, WB, ICC	H, M
IRAK-4 Antibody	3125	E, WB, ICC	H
IRAK-M Antibody	2355	E, WB, IHC	H, M, R
KINDLIN3 Antibody	4797	E, WB	H, M, R
MYD88 Antibody	2125	E, WB, IHC	H, M
RGS16 Antibody	27-988	E, WB	H, M, R
RGS5 Antibody	27-222	E, WB	H
Rheb Antibody	3501	E, WB, IHC	H, M, R
SIRP alpha Antibody	1125	E, WB, ICC	H, M, R
TLR4 Antibody	3141	E, WB, ICC	H
TLR5 Antibody	3647	E, WB, IHC	H, M, R
TLR6 Antibody	3651	E, WB, ICC	H, M
TLR9 Antibody	3737	E, WB, IHC	H, M
Wnt10b Antibody	4619	E, WB, IHC	H, M, R
XBP-1 Antibody	3685	E, WB, ICC	H, M, R
XEDAR Antibody	3855	E, WB, IHC	H

Select Citations:

1. J Biol Chem (2010). 285: 10850-10861 (Anti-ATG7)
2. Invest Ophthalmol Vis Sci (2006). 47: 5505-5513. (CTRP5)
3. J Cell Biol (2009). 186: 323 – 331. (anti-GAPDH)
4. Hum Reprod (2009). 24: 1982-1988. (HSL)
5. J Immunol (2008). 181: 4010 - 4018. (anti-IL-32)
6. Blood (2008)112: 2360-2368. (IRAK1)(MyD88)
7. J Immunol (2009). 182: 3928-3936. (IRAK4)
8. J Biol Chem (2010). 285: 18640 - 18649. (kindlin-3)
9. J Immunol (2010). 184: 2289 - 2296. (RGS16)
10. J Biol Chem (2011). 286: 11444 - 11455. (anti-RGS5)
11. Genes & Dev (2008). 22: 2172 - 2177. (anti-Rheb)
12. Blood (2008). 112: 1280-1289. (SIRPalph)
13. J Biol Chem (2011). 286: 12213-12220. (BMP-2)(TLR2)(TLR4)
14. J Immunol (2011). 186: 6417–6426. (TLR3)(TLR7)(TLR9)
15. Ann Rheum Dis (2012). 71: 761 - 767. (anti-Wnt-10b)
16. J Biol Chem (2009). 284: 33466 - 33474. (XBP1)
17. Development (2009). 136: 3557 - 3566. (anti-TAB1)
18. Clin Cancer Res (2010). 16: 1140 - 1148. (XEDAR)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

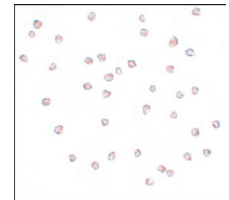
X=Xenopus Z=Zebrafish

13. Stem Cell

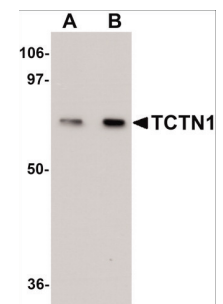
Stem cells are undifferentiated cells that have the ability to differentiate into a subset of undifferentiated or differentiated cells. Stem cells are recognized for their therapeutic potential. ProSci offers a comprehensive catalog of stem cell antibodies, including: Cancer Stem Cells, Embryonic Stem Cells, Endothelial Markers, Germline Stem Cells, Hematopoietic Progenitors, Mesenchymal Stem Cells, Neural Stem Cells and Signaling Pathways (e.g. Hedgehog, Notch, Wnt).

Product Name	Cat. No.	Application	Reactivity
ADAM17 Antibody	49-524	WB, IHC	H, M, R
BMP2 Antibody	49-646	E, IHC	H
PRDM16 Antibody	5555	E, WB, IHC	H, M, R
FREM2 Antibody	5831	E, WB, ICC	H, M
JMJD1A Antibody	5365	E, WB, IHC	H, M, R
LXR-A Antibody	5577	E, WB, IHC	H, M, R
PLEKHM2 Antibody	5485	E, WB, IHC	H, M, R
RHBDD1 Antibody	5525	E, WB	H, M
RSRC1 Antibody	5527	E, WB, IHC	H, M, R
SCF Antibody	5165	E, WB, IHC	H, M, R
SIPA1L2 Antibody	5493	E, WB, IHC	H, M, R
SIPA1L3 Antibody	5495	E, WB, IHC	H, M, R
TCTN1 Antibody	5833	E, WB, IHC	H, M
TCTN2 Antibody	5835	E, WB	H, M
TCTN3 Antibody	5837	E, WB, IHC	H, M, R
TMEM18 Antibody	5043	E, WB, IHC	H, M, R
UCMA Antibody	5211	E, WB	H, M
ZSCAN4 Antibody	5611	E, WB, IHC	H, M, R

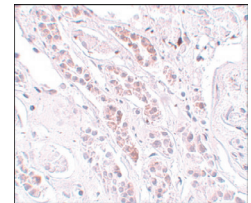
FREM2 in A-20 cells with FREM2 antibody at 20 µg/mL.



TCTN1 in mouse kidney tissue lysate with TCTN1 antibody at (A) 1 and (B) 2 µg/mL.



TCTN1 in human kidney tissue with TCTN1 antibody at 5 µg/mL.

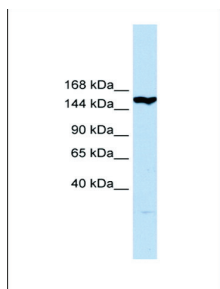


Select Citations:

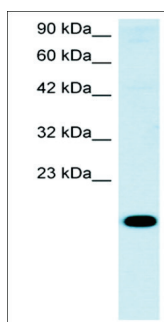
1. Ann. Onc. (2008). 19: 1075-1081. (ADAM-17)
2. Clin. Cancer Res. (2007). 13: 2335-2343. (ADAM-17)
3. J. Thorac. Cardiovasc. Surg. (2011) 141: 481-486. (BMP-2)
4. J. Thorac. Cardiovasc. Surg. (2009). 138: 1008-1015. (BMP-2)
5. J. Am. Coll. Cardiol. (2009) 53: 491-500. (BMP-2)
6. Am J Physiol Cell Physiol. (2008) 294: C29-C35. (BMP-2)
7. Hum. Mol. Genet. (2010). 19: 774-789. (PRDM16)

14. Transcription Factors

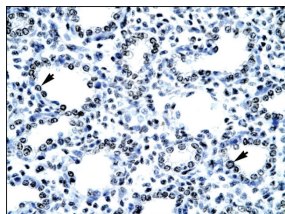
Transcription factors are proteins involved in the process of transcribing DNA to RNA. They bind to specific DNA sequences and regulate transcription by either activating or inhibiting RNA polymerase. Transcription factors contain more than one DNA-binding domain which allows the protein to bind to specific DNA sequences near the genes that they regulate. ProSci offers a wide selection of highly specific primary antibodies for studying transcription factors that have been validated for multiple applications.



Antibody dilution 1 µg/mL in cell type HeLa.



Antibody dilution 0.2-2.0 µg/mL in cell type HepG2.



Antibody dilution 4-8 µg/mL.

Product Name	Cat. No.	Application	Reactivity
AP2 Alpha mAb	51-269	E, WB, IHC	H
BCL6B Antibody	25-577	E, WB	H
CASP8AP2 Antibody	30-634	E, WB	H, M, R
CITED1 Antibody	27-673	E, WB, IHC	H
CITED2 Antibody	25-448	E, WB	H, M, R
EGR1 Antibody	28-572	E, WB	M, R
EVI1 Antibody	27-390	E, WB	H, R, D
G3BP Antibody	28-725	E, WB	H, M, D
IRX1 Antibody	27-890	E, WB	H, M, R
IRX2 Antibody	27-514	E, WB	H
IRX3 Antibody	29-803	E, WB, IHC	H
NPAS1 Antibody	27-490	E, WB, IHC	H
NSF Antibody	29-365	E, WB	H, M, R
PCBP4 Antibody	29-453	E, WB	H, M, R
PCNA Antibody	31-033	E, WB, IHC	H, M, R
RBPM5 Antibody	29-239	E, WB, IHC	H, M, R
RBPM5 Antibody	25-596	E, WB	H, M, R
RIPK3 Antibody	27-361	E, WB, IHC	H
SPIC Antibody	25-564	E, WB	H
SPOP Antibody	26-515	E, WB	H, M, R
TRIM32 Antibody	27-397	E, WB	H, M, R

Select Citations:

1. Blood (2006). 108: 1050-1057. (anti-CASP8AP2)
2. J Endocrinol (2011). 210: 309-321. (Cited1)
3. Am J Respir Crit Care Med (2010). 181: 1329-1335. (EGR1)
4. Cancer Res (2006). 66: 8404-8412. (anti-EVI1)
5. Mol Cell Biol (2007). 27: 2324-2342. (anti-G3BP)
6. Am J Respir Cell Mol Biol (2007). 36: 427-434. (Anti-NPAS1)
7. J Neurosci (2010). 30: 13955-13965 (anti-phospho-NSF)
8. Nucleic Acids Res (2011). 39: 213-224. (Anti-PCBP4)
9. Journal of Histochemistry & Cytochemistry (2011) 59: 591-600. (PCNA)
10. Invest Ophthalmol Vis Sci (2010). 51: 1052-1058. (Anti-RBPM5)
11. Invest Ophthalmol Vis Sci (2011). 52: 9694-9702. (Anti-Rbpm5)
12. J Exp Med (2011) 208: 633-641. (Ripk3)

Application: E=ELISA IF=Immunofluorescence IHC=Immunohistochemistry WB=Western Blot

Reactivity: B=Bovine Bc=Bacteria Chm=Chimpanzee Ck=Chicken D=Dog H=Human M=Mouse R=Rat V=Virus

X=Xenopus Z=Zebrafish

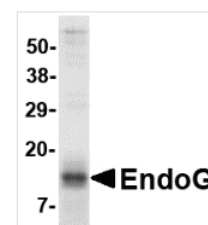
Additional Products Offered

1. Recombinant Proteins

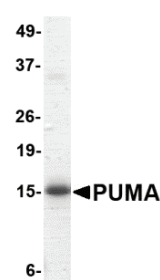
Laboratory-produced, purified proteins serve as key tools for countless research endeavors. ProSci offers a wide variety of recombinant proteins, which can be used for variety of applications including cell growth and differentiation, cell signaling, and disease onset and progression studies. A sampling of our offering is found below.

Product Name	Cat. No.	Application	Reactivity
ATG5 Recombinant Protein	95-121	E. coli	WB, MS
Carboxypeptidase-B Recombinant Protein	40-538	E. coli	WB, MS
CD22 Recombinant Protein	40-147	CHO cells	n/a
DR6 Cytoplasmic Domain Recombinant Protein	95-119	E. coli	E, WB, MS
EndoG Fragment Recombinant Protein	95-103	E. coli	E, WB, MS
Galectin-3 Recombinant Protein	40-329	E. coli	n/a
Granzyme B Recombinant Protein	40-125	Baculovirus	n/a
IL-1 alpha Recombinant Protein	40-240	E. coli	n/a
IMP-1 Recombinant Protein	39-901	E. coli	E, WB
IMP-3 Recombinant Protein	39-903	E. coli	E, WB
Pleiotrophin Recombinant Protein	40-503	E. coli	n/a
PUMA Fragment Recombinant Protein	95-102	E. coli	E, WB, MS
VEGF Recombinant Protein	40-491	E. coli	n/a
Viral MIP-2 Recombinant Protein	40-137	E. coli	n/a
XBP1 Recombinant Protein	95-109	E. coli	WB, MS

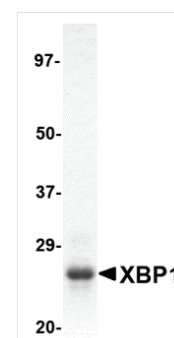
SDS-PAGE analysis of recombinant EndoG fragment on Coomassie Blue-stained 4-20% gradient gel.



SDS-PAGE analysis of recombinant PUMA fragment on Coomassie Blue-stained 4-20% gradient gel.



SDS-PAGE analysis of recombinant XBP1 on Coomassie Blue-stained 4-15% gradient gel.



Select Citations:

1. PNAS (2011). 108: 17468-17473. (RHGAL-3)
2. J. Virol., (2011). 85: 2325-2332. (GrB)
3. J. Bacteriol. (2009). 191: 693-700. (RPIECHKD), (RPLED).
4. J. Virol. (2011). 85: 10582-10597. (viral membrane (M) protein)
5. Am J Physiol Endocrinol Metab, (2010). 299: E23-E32. (Human brain and human and rat liver protein)
6. J. Biol. Chem. (2008). 283: 2814 - 2821. (testis tissue slides)
7. J. Biol. Chem., (2009). 284: 20593 - 20601. (DLX5)
8. Mol. Cancer Ther. (2008). 7: 3352 - 3362.(ATX)
9. Development (2010). 137: 1243 - 1250. (Recombinant protein)

2. Lysates

ProSci provides researchers with a variety of ready-to-use tissue lysates and cell lysates for proteomics research applications including immunoblot analysis, immunoprecipitation, enzymatic activity analysis, protein-protein interaction, and tissue specific expression profiling. Besides offering multiple tissue sources and species, we also offer cell lysates based on developmental stage as well as matched pair sets (which includes normal and diseased tissue from the same donor). Our best selling lysates are listed in the table below.

Product Name	Cat. No.	Description
Brain Lysate	1303	total protein normal brain - human
Breast Lysate	1311	total protein normal breast - human
Cervix Lysate	1318	total protein normal cervix - human
Colon Lysate	1320	total protein normal colon - human
Frontal Lobe Lysate	1366	total protein normal frontal lobe - human
Heart Lysate	1301	total protein normal heart - human
Heart Membrane lysate	21-243	membrane heart - monkey (rhesus)
HeLa Lysate	1201	cervix epithelioid carcinoma
Kidney Lysate	1305	total protein normal kidney - human
Kidney Lysate	1345-N	total protein kidney normal - human
Liver Lysate	1304	total protein normal liver - human
Liver Lysate	1464	total protein liver - rat
Liver Lysate	1304	total protein normal liver - human
Lung Lysate	1402	total protein lung - mouse
Placenta Lysate	1309	total protein normal placenta - human
Prostate Lysate	1312	total protein normal prostate - human
Skeletal Muscle Lysate	1375	total protein normal skeletal muscle - human
Skin Lysate	1480	total protein skin - rat
Skin Lysate	1376	total protein normal skin - human
Spleen Lysate	1306	total protein normal spleen - human
Thymus Lysate	1409	total protein thymus - mouse

Select Citations:

1. J Biol Chem (2005). 280: 19543-19550. (Normal breast tissue lysates)
2. Hum Mol Genet (2008). 17: 859-871. (Human normal adult cerebral cortex tissue lysate) (human fetal frontal lobe membrane protein lysate)
3. J Pharmacol Exp Ther (2010). 335: 533-545. (human heart lysate)
4. Am J Physiol Heart Circ Physiol (2012). 302: H1355-H1366. (rat skin lysate) (human prostate lysate) (HeLa cell lysate) (human skin) (human prostate)
5. J Biochem (2009). 146: 113-122. (The human placenta and kidney lysates)
6. Cancer Res (2007). 67: 11942-11950. (Normal prostate lysate)
7. Am J Physiol Endocrinol Metab (2011). 301: E380-E390. (skeletal muscle)
8. Hypertension (2009). 53: 409-416. (mouse thymus tissue lysate)
9. Clin Cancer Res (2008) 14: 396 - 404. (normal human tissue lysates)

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Western blot analysis of PUMA expression in human (H) K562 and mouse (M) 3T3 cell lysates with PUMA antibody at 2 µg/ml

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Specifications | Properties | Additional Info | Background

SPECIES REACTIVITY: Human, Mouse

TESTED APPLICATIONS: ELISA, ICC, IF, WB

APPLICATIONS: PUMA antibody can be used for detection of PUMA by Western blot at 2 µg/ml. Antibody can also be used for immunocytochemistry at 1 µg/ml. For immunofluorescence start at 2 µg/ml.

USER NOTE: Optimal dilutions for each application to be determined by the researcher.

POSITIVE CONTROL: 1) Cat. No. 1204 - K562 Cell Lysate
2) Cat. No. 1212 - 3T3 Cell Lysate

PREDICTED MOLECULAR WEIGHT: 23 kDa

SPECIFICITY: A lower band at approximately 16 kDa was detected in MOLT4 and U937 cells, which may represent the PUMA-b form.

IMMUNOGEN: PUMA antibody was raised against a synthetic peptide corresponding to 14 amino acids near the carboxy terminus of human PUMA-b. This sequence is identical between a and b forms of the PUMA proteins.

HOST SPECIES: Rabbit

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