Anti-Mouse CD45R (Ly 5, B220) Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL8990A	Ascites	0.5ml	NA	CLCR2A00
CL8990AC7	APC-Cy7	100µg	0.2 mg/ml	CLCR2A14
CL8990AP	Purified	250µg	1.0 mg/ml	CLCR2A00
CL8990B/-3	Biotin	100µg/300µg	0.1 mg/ml	CLCR2A15
CL8990F/-3	FITC	100µg/300µg	0.1 mg/ml	CLCR2A01
CL8990APC	APC	100µg	0.1 mg/ml	CLCR2A05
CL8990NA	No Azide	1.0mg	1.0 mg/ml	CLCR2A00
CL8990PC7	PE-Cy7	0.1 mg	0.2 mg/ml	CLCR2A12
CL8990PE/-3	PE	50µg/300µg	0.1 mg/ml	CLCR2A04
CL8990TC	PE-Cy5	0.1 mg	0.2 mg/ml	CLCR2A06

Isotype: Rat IgG_{2a}

DESCRIPTION:

Cedarlane's anti-mouse CD45R, B220 (Ly 5) monoclonal antibody reacts with a form of the CD45 antigen found on B cells and lytically active subsets of NK cells and non - MHC restricted CTL's[1,2,3,4].

This antibody immunoprecipitates the high molecular weight (220,000 Da) surface molecule of the leukocyte common antigen B220[1] on B cells. Applications include flow cytometry and immunprecipitation[1]. Also reacts with human B cells and is reported to work in immunohistochemical applications, both frozen and paraffin sections [5].

PRESENTATION:

Ascites: Lyophilized
Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
APC, Biotin, FITC and **PE**: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.
PE-Cy5, PE-Cy7 and **APC-Cy7**: PE-Cy5/PE-Cy7/APC-Cy7 conjugated Ig buffered in PBS, 0.1% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.
No Azide: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

STORAGE/STABILITY:

Store **Ascites** at -20°C. For all other formats, store at 4°C. DO NOT FREEZ **APC, APC-Cy7, PE-Cy5, PE-Cy7** and **PE** conjugates. For long term storage (**Purified, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

In CANADA: Toll Free: 1-800-268-5058
4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644
1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

SPECIFICATIONS:

Clone: RA3-6B2

Hybridoma Production:

Immunization: Immunogen: Mouse pre-B tumour cells (RAW112).
Donor: Lewis rat spleen

Fusion Partner: S 194/5. XXO. BU-1

Specificity: Mouse CD45R, B220 (Ly 5)

TEST RESULTS:

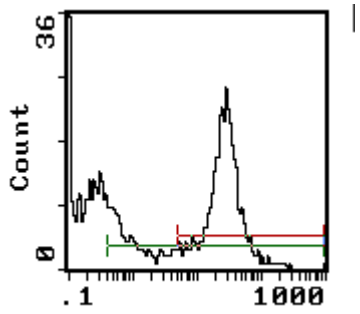
Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: $1x10^6$ cells per tests

Antibody Concentration Used: 0.5 µg/10^6 cells,

Cell Source	Percentage of cells stained above control:
Thymus	2.5%
Spleen	59.0%
Lymph Node	16.4%
Human Peripheral Blood Lymphocytes	24.1%



Anti-Mouse CD45R (Ly 5, B220)

Cell Source: Mouse Spleen

N.B. Appropriate control samples should always be included in any labeling studies.
*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1) Coffman, B. 1982. Surface antigen expression and immunoglobulin rearrangement during mouse pre-B cell development. Imunological Rev. 69:5 - 23.
2) Zuhair, K., Ballas, and Rasmussen, W., 1993. Lymphokine-activated killer cells VII. IL-4 induces an NK1.1 + CD8a+b- TCR αβ B220+ lymphokine-activated killer subset.
3) Asensi, V., and Kimeno, K., et al. 1989. Treatment of autoimmune MRL/lpr mice with anti-B220 monoclonal antibody reduces the level of anti-DNA antibodies and lymphadenopathies. Immunology 68: 204 -208.
4) Ballas, A. K., and W. Rasmussen. 1990. Lymphokine-activated killer (LAK) cells. IV. Characterization of murine LAK effector subpopulations, J. Immunol. 144:386.
5) Whiteland, J.L et al (1995). Immunohistochemical detection of T cell subsets and other leukocytes in paraffin embedded rat and mouse tissues with monoclonal antibodies .J. Histochem. Cytochem. 43: 313-320.

FOR RESEARCH USE ONLY

CS 08/25/2016