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Anti-Human Protein C/APC

Catalogue#	Format	Size	Concentration	Isotype Control
CL2769AP	Purified	200 µg	1.0 mg/ml	CLCMG100

Isotype: Mouse IgG₁

Clone: CaC-11

DESCRIPTION:

Protein C (PC) is a major physiological anticoagulant, and an important regulator of the blood coagulation system. PC is a vitamin K dependent serine protease enzyme that is activated by thrombin. The anticoagulant PC is converted to activated protein C (APC) by the thrombomodulin (TM) – thrombin complex on the phospholipid surface of endothelial cells, monocytes and platelets. APC degrades coagulation Factors Va and VIIIa rendering these factors inactive. APC provides physiologic antithrombotic activity and exhibits both anti-inflammatory and anti-apoptotic activity. Treatment with APC has been shown to improve the clinical outcome of patients with sepsis.

PRESENTATION:

Purified:

Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

Biotin: Biotin conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

STORAGE:

Store at +4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single use. Avoid freeze thaw cycles.

Immunogen: Human Protein C purified from the supernatant of thrombin activated platelets.

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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

SPECIFICITY:

This antibody is specific for Human Protein C/APC in the presence of 5-10 mM CaCl₂.

APPLICATION:

This antibody is suitable for use in ELISA and Western Blot.

Application Notes: ELISA: Use at a concentration of 3.9 ng/ml

REFERENCES:

1. Arepally et al; PF4/heparin complexes are T cell-dependent antigens; Blood 106(3): 929-931, 2005.
2. Arepally GM, Kamei S, Park KS, et al. Characterization of a murine monoclonal antibody that mimics heparin-induced thrombocytopenia antibodies. Blood. 95(5):1533-1540, 2000.
3. Bharadwaj et al; A Novel Mutation in the Catalytic Domain That Reduces Tissue Factor Binding, Impairs Activation by Factor XA, and Abolishes Amidolytic and Coagulant Activity; JBC 271(48) pp 30685-30691, 1996.
4. Yamamoto et al; Tissue Factor-dependent Autoactivation of Human Blood Coagulation Factor VII; JBC 267(27) 19089-19094, 1992.
5. Kazama et al; Isolation and Characterization of Proteolytic Fragments of Human Factor VIIa Which Inhibit the Tissue Factor-enhanced Amidolytic Activity of Factor VIIa; The Journal of Biological Chemistry 286(22), pp 16231-16240, 1993.
6. Wojtkiewicz et al; Solid Tumor Cells Express Functional "Tethered Ligand" Thrombin Receptor; Cancer Research 55, 698-704, 1995.

Optimum conditions for use of this antibody in analytical procedures should be established in each laboratory

Laboratory Reagent For Research Use Only