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C8B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19757b

Product Information

Application	WB, E
Primary Accession	P07358
Other Accession	NP_000057.1
Reactivity	Human
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30678
Calculated MW	66948
Antigen Region	393-422

Additional Information

Gene ID	732
Other Names	Complement component C8 beta chain, Complement component 8 subunit beta, C8B
Target/Specificity	This C8B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 393-422 amino acids from the C-terminal region of human C8B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	C8B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	C8B (HGNC:1353)
Function	Component of the membrane attack complex (MAC), a multiprotein complex activated by the complement cascade, which inserts into a target cell

membrane and forms a pore, leading to target cell membrane rupture and cell lysis (PubMed:22832194, PubMed:26841837, PubMed:27052168, PubMed:30552328, PubMed:7440581). The MAC is initiated by proteolytic cleavage of C5 into complement C5b in response to the classical, alternative, lectin and GZMK complement pathways (PubMed:30552328, PubMed:39914456, PubMed:39814882, PubMed:7440581). The complement pathways consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:30552328, PubMed:7440581). C8B, together with C8A and C8G, inserts into the target membrane, but does not form pores by itself (PubMed:30552328). During MAC assembly, associates with C5b, C6 and C7 to form the C5b8 intermediate complex that inserts into the target membrane and traverses the bilayer increasing membrane rigidity (PubMed:30552328, PubMed:6833260).

Cellular Location

Secreted. Target cell membrane; Multi-pass membrane protein. Note=Secreted as soluble protein (PubMed:30552328). Inserts into the cell membrane of target cells (PubMed:30552328, PubMed:31061395)

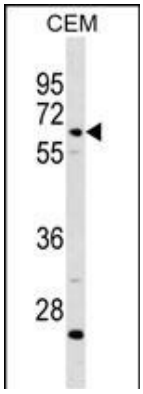
Background

C8 beta is one of the three subunits that comprise the component 8 (C8) of the complement system. C8 participates in the formation of Membrane Attack Complex that results in the lysis of cells. Patients with C8B deficiency are prone to bacteria infection.

References

Han, S., et al. Hum. Immunol. 71(7):727-730(2010)
Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Gancz, D., et al. Mol. Immunol. 47 (2-3), 310-317 (2009) :
Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 18(5):1651-1658(2009)

Images



C8B Antibody (C-term) (Cat. #AP19757b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the C8B antibody detected the C8B protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.