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CFP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9941c

Product Information

Application	WB, FC, E
Primary Accession	P27918
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22181
Calculated MW	51276
Antigen Region	197-223

Additional Information

Gene ID	5199
Other Names	Properdin, Complement factor P, CFP, PFC
Target/Specificity	This CFP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-223 amino acids from the Central region of human CFP.
Dilution	WB~~1:500 FC~~1:10~50 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	CFP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CFP (HGNC:8864)
Synonyms	PFC
Function	A positive regulator of the alternate pathway (AP) of complement (PubMed:16301317, PubMed:20382442, PubMed:28264884, PubMed:9748277). It binds to and stabilizes the C3- and C5-convertase

enzyme complexes (PubMed:16301317, PubMed:20382442, PubMed:28264884, PubMed:9748277). Inhibits CFI-CFH mediated degradation of Complement C3 beta chain (C3b) (PubMed:31507604).

Cellular Location Secreted

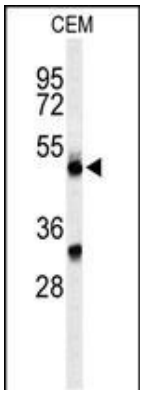
Background

This gene encodes a plasma glycoprotein that positively regulates the alternative complement pathway of the innate immune system. This protein binds to many microbial surfaces and apoptotic cells and stabilizes the C3- and C5-convertase enzyme complexes in a feedback loop that ultimately leads to formation of the membrane attack complex and lysis of the target cell. Mutations in this gene result in two forms of properdin deficiency, which results in high susceptibility to meningococcal infections.

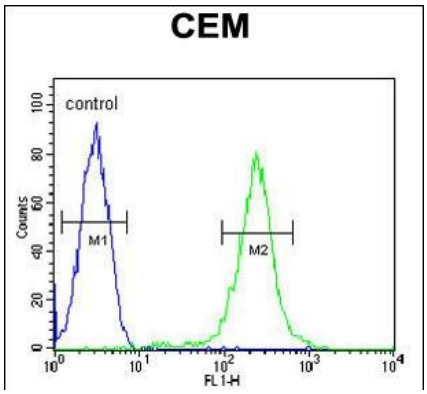
References

Seitsonen, S., et al. Mol. Immunol. 47(6):1334-1336(2010)
Chapuis, J., et al. Mol. Psychiatry 14(11):1004-1016(2009)
Wolf-Schnurrbusch, U.E., et al. Retina (Philadelphia, Pa.) 29(7):966-973(2009)
Keslar, K., et al. Transplantation 86(9):1319-1321(2008)
Hartmann, S., et al. J. Biol. Chem. 275(37):28569-28574(2000)

Images



Western blot analysis of CFP Antibody (Center) (Cat. #AP9941c) in CEM cell line lysates (35ug/lane). CFP (arrow) was detected using the purified Pab.



CFP Antibody (Center) (Cat. #AP9941c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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