

Mouse anti-Human Properdin Monoclonal Antibody | anti-CFP antibody

Properdin, Human, mAb SIM295-9.3.4

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77807	Mouse	Human	Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Properdin; Monoclonal Antibody; Human; mAb SIM295-9.3.4; clone SIM 295-9.3.4; Factor P; anti-CFP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Purity/Purification	Protein G
Form/Format	1 ml (100 ug/ml) 0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide. For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Sequence Length	469
Applicable Applications for anti-CFP antibody	WB (Western Blot), IA (Immunoassay), FCM/FACS (Flow Cytometry)
Immunogen	Purified human hroperdin.
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

ADDITIONAL INFORMATION

Related Product Information for anti-CFP antibody	The monoclonal antibody SIM 295-9.3.4 reacts with human properdin (factor P), which is a single-chain plasma glycoprotein with an apparent molecular mass of 52-55 kDa. The protein domain structure of properdin consists of six thrombospondin repeat sequences between short N- and C-terminal domains. In blood, properdin exists as a mixture of head-to-tail dimers, trimers and tetramers. The protein is expressed by a variety of leukocytes, including monocytes, T lymphocytes and neutrophils, but also by endothelial cells in which properdin synthesis is induced by certain stress factors. Properdin participates in the alternative pathway of complement activation together with C3 and factors B, D, I and H by prolonging the half-life of the labile C3bBb, which is deposited on immune complexes or foreign surfaces. This permits amplification of C3bBb formation in competition with catabolism of C3b by factor I, which uses factor H as a cofactor. The local amplification process leads to the creation of the alternative pathway C5 convertase, C3bBb3b, and initiates the terminal pathway of complement activation. As a consequence, properdin is consumed by binding to C3bBb, which shows an order of preference of tetramers over trimers over dimers, which corresponds to the functional activity of the oligomeric forms. Deficiency or malfunction of the molecule may lead to severe impairment of alternative pathway activation, depending on the precise nature of the defect. Three types of deficiencies have been described so far: type 1 (or I) is characterized by serum with very low or absent properdin activity in hemolytic assays and <0.1 ug/ml immunoreactive protein; type 2 (or II) is characterized by low but detectable levels of immunoreactive protein (>2 ug/ml) and impairment of some, but not all functional test, and type 3 (or III) has normal levels of immunoreactive but dysfunctional protein (5-25 ug/mL). Lower properdin levels were found in 70% of diabetic patients when compared to nondiabetic controls and is suggested by the authors that patients with low expression of properdin take preventive measures and early treatments against infection. The monoclonal antibody SIM 295-9.3.4 is suitable for flow cytometry, immunohistochemistry, western blotting as well as use in immunoassays.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	223671861
NCBI GeneID	5199
NCBI Accession #	NP_001138724.1
NCBI GenBank Nucleotide #	NM_001145252.1
UniProt Accession #	P27918; O15134; O15135; O15136; O75826
NCBI Official Full Name	properdin
NCBI Official Synonym Full Names	complement factor properdin
NCBI Official Symbol	CFP
NCBI Official Synonym Symbols	BFD; PFC; PFD; PROPERDIN
NCBI Protein Information	properdin; complement factor P; properdin P factor, complement
UniProt Protein Name	Properdin
UniProt Gene Name	CFP
UniProt Synonym Gene Names	PFC
UniProt Entry Name	PROP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/properdin-antibody-western-blot-immunoassay-flow-cytometry-elisa/77807>