Factor D (FactorD) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Factor D (FactorD), Polyclonal Antibody
Full Product Name	Factor D Polyclonal Antibody Bio Conjugated
Product Gene Name	anti-FactorD antibody
Product Synonym Names	Factor D
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M TBS (pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Purity/Purification	affinity purified by Protein A
Preparation and Storage	Store at -20 degree C for one year. Avoid repeated freeze/thaw cycles. Shipped at 4 degree C.
Molecular Weight	27,033 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (859665..863624). Location: 19p13.3
OMIM	134350
3D Structure	ModBase 3D Structure for P00746
Conjugation	Biotin
Immunogen Type	21-120/253
Product Categories/Family for anti-FactorD antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-FactorD antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-FactorD antibody	WB: 1:50-200 IHC-P: 1:50-200 IHC-F: 1:50-200 ICC: 1:50-200 IF: 1:50-200
Related Product Information for anti-FactorD antibody	MBS9462750 is an antibody targeting FactorD. Also known as Factor D Polyclonal Antibody Bio Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-FactorD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FactorD. It may not necessarily be applicable to this product.

NCBI GI #	42544239
NCBI GeneID	1675

NCBI Accession #	NP_001919.2
UniProt Primary Accession #	P00746
UniProt Secondary Accession #	Q5U5S1; Q86VJ5; Q8N4E0; Q8WZB4; B4DV76
UniProt Related Accession #	P00746
GenBank Nucleotide #	NM_001928.2
NCBI Official Full Name	complement factor D preproprotein
NCBI Official Synonym Full Names	complement factor D (adipsin)
NCBI Official Symbol	CFD
NCBI Official Synonym Symbols	DF; ADN; PFD; ADIPSIN
UniProt Protein Name	Complement factor D
UniProt Synonym Protein Names	Adipsin; C3 convertase activator; Properdin factor D
Protein Family	von Willebrand factor D and EGF domain-containing protein
UniProt Gene Name	CFD
UniProt Synonym Gene Names	DF; PFD
UniProt Entry Name	CFAD_HUMAN
NCBI Protein Information	complement factor D; properdin factor D; C3 convertase activator; complement factor D preproprotein; D component of complement (adipsin)
NCBI Summary for FactorD	The protein encoded by this gene is a member of the trypsin family of peptidases. The encoded protein is a component of the alternative complement pathway best known for its role in humoral suppression of infectious agents. This protein is also a serine protease that is secreted by adipocytes into the bloodstream. Finally, the encoded protein has a high level of expression in fat, suggesting a role for adipose tissue in immune system biology. [provided by RefSeq, Jul 2008]
UniProt Comments for FactorD	CFD: Factor D cleaves factor B when the latter is complexed with factor C3b, activating the C3bbb complex, which then becomes the C3 convertase of the alternate pathway. Its function is homologous to that of C1s in the classical pathway. Defects in CFD are the cause of complement factor D deficiency (CFDD). CFDD is an immunologic disorder characterized by increased susceptibility to bacterial infections, particularly Neisseria infections, due to a defect in the alternative complement pathway. Belongs to the peptidase S1 family. Protein type: Protease; Secreted, signal peptide; EC 3.4.21.46; Secreted Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: extracellular space; extracellular region Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity Biological Process: platelet activation; platelet degranulation; complement activation, alternative pathway; innate immune response; blood coagulation; proteolysis; complement activation Disease: Complement Factor D Deficiency
Research Articles on FactorD	**1.** Increased activation of the alternative complement pathway in vitreous was controlled by disease stage and genetic variation in the complement pathway, supporting a role for complement activation in macular degeneration disease pathogenesis.
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