Complement Factor B (CFB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Complement Factor B (CFB), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Complement Factor B (CFB)
Product Gene Name	anti-CFB antibody
Product Synonym Names	CF-B; BF; BFD; CFAB; GBG; H2-Bf; PBF2; B-Factor; Properdin; Properdin factor B; C3/C5 convertase; Glycine-rich beta glycoprotein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: CFB (MBS2007112) PE Conjugated Antibody: CFB (MBS2062008)
Matching Pairs	PE Conjugated Antibody: CFB (MBS2062008) Immunogen: CFB (MBS2010809)
Molecular Weight	68,872 Da
OMIM	X72875 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	CFB (Asn270~Thr388)
Conjugation	PE
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2007112
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CFB antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-CFB antibody	MBS2062008 is an antibody targeting CFB. Also known as PE-Linked Polyclonal Antibody to Complement Factor B (CFB). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-CFB 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 CFB. It may not necessarily be applicable to this product.

NCBI GI #	297569
NCBI GeneID	629
NCBI Accession #	CAA51389.1

UniProt Secondary Accession #	O15006; Q29944; Q53F89; Q5JP67; Q5ST50; Q96HX6; Q9BTF5; Q9BX92; B0QZQ6
UniProt Related Accession #	P00751
NCBI Official Full Name	complement factor B
NCBI Official Synonym Full Names	complement factor B
NCBI Official Symbol	CFB
NCBI Official Synonym Symbols	BF; FB; BFD; GBG; CFAB; CFBD; PBF2; AHUS4; FBI12; H2-Bf; ARMD14
UniProt Protein Name	Complement factor B
UniProt Synonym Protein Names	C3/C5 convertase; Glycine-rich beta glycoprotein; GBG
Protein Family	Complement factor
UniProt Gene Name	CFB
UniProt Synonym Gene Names	BF; BFD; GBG
NCBI Protein Information	complement factor B
NCBI Summary for CFB	This gene encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease which associates with C3b to form the alternative pathway C3 convertase. Bb is involved in the proliferation of preactivated B lymphocytes, while Ba inhibits their proliferation. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. This cluster includes several genes involved in regulation of the immune reaction. Polymorphisms in this gene are associated with a reduced risk of age-related macular degeneration. The polyadenylation site of this gene is 421 bp from the 5' end of the gene for complement component 2. [provided by RefSeq, Jul 2008]
UniProt Comments for CFB	CFB: Factor B which is part of the alternate pathway of the complement system is cleaved by factor D into 2 fragments: Ba and Bb. Bb, a serine protease, then combines with complement factor 3b to generate the C3 or C5 convertase. It has also been implicated in proliferation and differentiation of preactivated B- lymphocytes, rapid spreading of peripheral blood monocytes, stimulation of lymphocyte blastogenesis and lysis of erythrocytes. Ba inhibits the proliferation of preactivated B-lymphocytes. Defects in CFB are a cause of susceptibility to hemolytic uremic syndrome atypical type 4 (AHUS4). An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.21.47; Protease; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6p21.33 Cellular Component: extracellular region; extracellular space; plasma membrane Molecular Function: complement binding; serine-type endopeptidase activity Biological Process: complement activation; complement activation, alternative pathway; regulation of complement activation Disease: Complement Factor B Deficiency; Hemolytic Uremic Syndrome, Atypical, Susceptibility To, 4; Macular Degeneration, Age-related, 14
Research Articles on CFB	**1.** Our results revealed a significant association of CFB with non-infectious uveitis, particularly predisposed to VKH disease. Genetic differences for uveitis could be gender-specific.

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