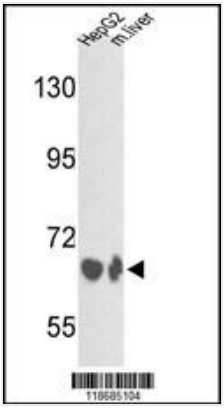
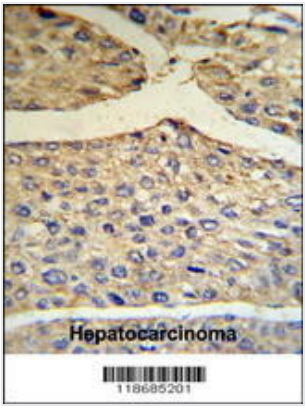
CFB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CFB, Polyclonal Antibody
Full Product Name	CFB, ID (Complement Factor B, C3/C5 Convertase, Properdin Factor B, Glycine-rich beta Glycoprotein, GBG, PBF2, Complement factor B Ba fragment, Complement factor B Bb fragment, BFD, BF) (MaxLight 650)
Product Gene Name	anti-CFB antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CFB.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	59.4kDa (528aa)
OMIM	138470
3D Structure	ModBase 3D Structure for P00751
Immunogen	Synthetic peptide selected from the center region of human BF (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CFB antibody	Antibodies; Complement
Applications Tested/Suitable for anti-CFB antibody	Western Blot (WB), FLISA
Application Notes for anti-CFB antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CFB antibody	MBS6469999 is an antibody targeting CFB. Also known as CFB, ID (Complement Factor B, C3/C5 Convertase, Properdin Factor B, Glycine-rich beta Glycoprotein, GBG, PBF2, Complement factor B Ba fragment, Complement factor B Bb fragment, BFD, BF) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CFB antibody	1. Baatz, H., Klin Monatsbl Augenheilkd 226(8), 654-658 (2009). 2. Goring, K., Am. J. Physiol., Cell Physiol. 296(5), C1140-C1150 (2009).
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.



Western Blot (WB) of anti-CFB antibody
Western blot analysis of BF Antibody (Center) in HepG2 cell line and mouse liver tissue lysates (35ug/lane). BF (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-CFB antibody
BF Antibody (Center) (RB18685) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the BF Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

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

NCBI GI #	67782358
NCBI GeneID	629
NCBI Accession #	NP_001701
UniProt Primary Accession #	P00751
UniProt Secondary Accession #	O15006; Q29944; Q53F89; Q5JP67; Q5ST50; Q96HX6; Q9BTF5; Q9BX92; B0QZQ6
UniProt Related Accession #	P00751
GenBank Nucleotide #	NM_001710.5
NCBI Official Full Name	complement factor B preproprotein
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; PBF2; Properdin factor B
Protein Family	Complement factor
UniProt Gene Name	CFB
UniProt Synonym Gene Names	BF; BFD; GBG
UniProt Entry Name	CFAB_HUMAN
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: Secreted, signal peptide; Secreted; Protease; EC 3.4.21.47 Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: extracellular space; extracellular region; plasma membrane Molecular Function: complement binding; serine-type endopeptidase activity Biological Process: complement activation, alternative pathway; regulation of complement activation; innate immune response; proteolysis; complement activation Disease: Macular Degeneration, Age-related, 14; Complement Factor B Deficiency; Hemolytic Uremic Syndrome, Atypical, Susceptibility To, 4
Research Articles on CFB	**1.** The complement activation factors Bb, C3a, C5a, and MAC were increased significantly in early-onset severe pre-eclampsia (EOSPE) (all P<.01) and late-onset severe pre-eclampsia (LOSPE). (P value: .027, <.001, .001, and <.001, respectively) compared with E/L-control. C1q and C4d were increased significantly in LOSPE (P value: .003 and .014, respectively) compared with L-control.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cfb/6469999