

Recombinant Full Length Human CFB Protein, C-Flag-tagged

Cat. No. CFB-834HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CFB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83 kDa
AA Sequence	MGSNLSPQLCLMPFILGLLSGGVTTTPWSLAWPQGSCSLEGVEIKGGSFRLLQEGQ ALEYVCPSPGFYPYP VQTRTCRSTGSWSTLKTQDQKTVRKAECRAIHCPRPDFEN

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GEYWPRSPYYNVSDEISFHCYDGYTLRGS ANRTCQVNGRWSGQTAICDNGAGYC
 SNPGIPIGTRKVGVSQYRLEDSTYHCSRGLTLRGSQRRTCQEGGS WSGTEPSCQD
 SFMYDTPQEVAEAFSSLTETIEGVDAEDGHGPGEQQKRKIVLDPSGSMNIYLVLDG
 SDS IGASNFTGAKKCLVNLIEKVASYGVKPRYGLVTYATYPKIWVKVSEADSSNADW
 VTKQLNEINYEDHKLK SGTNTKKALQAVYSMMSWPDDVPPEGWNRRHVILMTDG
 LHNMGDPITVIDEIRDLLYIGKDRKNPRE DYLDVYVFGVGPLVNQVNINALASKKDN
 EQHVFKVKDMENLEDVFYQMIDESQSLSLCGMVWEHRKGTDY HKQPWQAKISVIR
 PSKGHESCMGAVVSEYFVLTAHCFTVDDKEHSIKVSVGGEKRDLEIEVVLFPNPNY
 INGKKEAGIPEFYDYDVALIKLKNKLKYGQTIRPICLPCTEGTTRALRLPPTTTCQQQK
 EELLPAQDIKA LRVSEEEKLTRKEVYIKNGDKKGCERDAQYAPGYDKVKDISEVV
 TPRFLCTGGVSPYADPNTCRGDSG
 GPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVPAHARDFHINLFQVLPWLKEKLQ
 DEDLGFLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease, Secreted Protein
Protein Pathways	Complement and coagulation cascades

Full Length
Full L.

GENE INFORMATION

Gene Name CFB complement factor B [Homo sapiens (human)]

Official Symbol CFB

Synonyms BF; FB; BFD; GBG; CFAB; CFBD; PBF2; AHUS4; FBI12; H2-Bf; ARMD14

Gene ID 629

mRNA Refseq NM_001710.6

Protein Refseq NP_001701.2

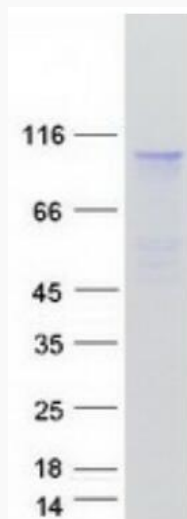
MIM 138470

UniProt ID P00751

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Coomassie blue staining of purified CFB protein.

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