

Recombinant Human CFB, His-tagged

Cat. No. CFB-26760TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 77-764 of Human Factor B with N terminal His tag; MWt 91kDa.
Species	Human
Source	E.coli
ProteinLength	77-764 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 100 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RSTGSWSTLKTQDQKTVRKAECRAIHCPRP HDFENG EYWP RSPYYNVSDEISFHC YDGYTLRGSANRTCQVNGRWSGQ TAICDNGAGYCSNPGIPIGTRKVG SQYRLED S VTYHCS RGLTLRGSQRRTCQEGGSWSGTEPSCQDSFMYDTPQEV AEAFLSSLTE TIEGVDAEDGHGPGEQQKRKIVLDPSGSMN IYLVLDGSDSIGASNFTGAKKCLVNLI EKVASYGVKPR YGLVTYATYPKIWVKVSEADSSNADWVT KQLNEINYED HKLKSGT NTKKALQAVYSMMSPDDVPPEGWNRTRHVI ILMTDGLHNMGGDPITVIDEIRDLL YIGKDRKNPREDYLD VYVFGVGPLVNQVNINALASKKDNEQHVFVKVMDMENLE DV FYQMIDESQSLSLCGMVWEHRKGT DYHKQPWQAKIS VIRPSKGHESCMGAVVSEY FVLTAAHCF TVDDKEHSIK VSVGGEKRDLEIEVVL FHPNYNINGKKEAGIPEFYDYDV ALIKLKNKLKYGQTIRPICLPCTEGTTRALRLPPTTTCQ QQKEELLPAQDIKALFVSEE EKKLTRKEVYIKNGDKKG SCERDAQYAPGYDKVKDISEVVT PRFLCTGGVSPYADP NTCRGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKR QKQVPAHARDFHINLFQV LPWLKEKLQDEDLGFL
Sequence Similarities	Belongs to the peptidase S1 family.Contains 1 peptidase S1 domain.Contains 3 Sushi (CCP/SCR) domains.Contains 1 VWFA domain.

GENE INFORMATION

Gene Name	CFB complement factor B [Homo sapiens]
Official Symbol	CFB
Synonyms	CFB; complement factor B; B factor, properdin , BF, BFD; H2 Bf;
Gene ID	629

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mRNA Refseq	NM_001710
Protein Refseq	NP_001701
Uniprot ID	P00751
Chromosome Location	6p21.3
Pathway	Activation of C3 and C5, organism-specific biosystem; Alternative complement activation, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem;
Function	complement binding; peptidase activity; serine-type endopeptidase activity;

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