

## Recombinant Full Length Human CFB Protein, GST-tagged

**Cat. No.** CFB-3292HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Human CFB full-length ORF (1 a.a. - 764 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 764 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>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]</p> |
| <b>Molecular Mass</b>   | 111.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MGSNLSPQLCLMPFILGLLSGGVTTTPWSLARPPQGSCSLEGVEIKGGSFRLQLQEGQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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ALEYVCPSGFYPPVQTRTCRSTGSWSTLKTQDQKTVRKAECRAIHCPRPHDFENG  
 EYWPRSPYYNVSDEISFHCYDGYTLRGSANRTCQVNGRWSGQTAICDNGAGYCSN  
 PGIPIGTRKVGVSQYRLEDSVTYHCSRGLTLRGSQRRTCQEGGSWSGTEPSCQDSF  
 MYDTPQEVAEAFSSLTETIEGVDAEDGHGPGEEQQKRKIVLDPSGSMNIYLVLDGSD  
 SIGASNFTGAKKCLVNLIEKVASYGVKPRYGLVTYATYPKIWVKVSEADSSNADWWT  
 KQLNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPEGWNRTRHVILMTDGLH  
 NMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQ  
 HVFKVKDMENLEDVFYQMIDESQSLSLCGMVWEHRKGTDYHKQPWQAKISVIRPSK  
 GHESCMGAVVSEYFVLTAHCFTVDDKEHSIKVSVGGEKRDLEIEVVLPHPNYNING  
 KKEAGIPEFYDYDVALIKLKNKLKYGQTIRPICLPCTEGTTRALRLPPTTTCQQQKEEL  
 LPAQDIKALFVSEEEKLTRKEVYIKNGDKKGSCERDAQYAPGYDKVKDISEVVT  
 PRFLCTGGVSPYADPNTCRGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVP  
 AHARDFHINLQVLPWLKEKLQDEDLGFL

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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; C3 proactivator;

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C3/C5 convertase; C3 proaccelerator; properdin factor B; B-factor, properdin; glycine-rich beta glycoprotein; glycine-rich beta-glycoprotein; BF; FB; BFD; GBG; CFAB; PBF2; AHUS4; FBI12; H2-Bf; FLJ54899;

**Gene ID** 629

**mRNA Refseq** NM\_001710

**Protein Refseq** NP\_001701

**MIM** 138470

**UniProt ID** P00751

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