

## Recombinant Human CFB, His-tagged

Cat. No. CFB-26762TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant full length Factor B protein (Human) expressed in HEK293-EBNA1 cells with an N-terminal hexahistidine tag. The protein is glycosylated and runs at 100kDa. On treatment with PNGaseF the protein runs at 80kDa.

**Species** Human

**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** Liquid

**Purity** >95% by SDS-PAGE

**Storage buffer** Preservative: None Constituents: 25mM Tris, 150mM Sodium chloride, pH 7.5

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                              |  |
|------------------------------|--|
| <b>Storage</b>               | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                      |
| <b>Sequence Similarities</b> | Belongs to the peptidase S1 family.Contains 1 peptidase S1 domain.Contains 3 Sushi (CCP/SCR) domains.Contains 1 VWFA domain. |
| <b>Full Length</b>           | Full L.  |

## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | CFB complement factor B [ Homo sapiens ]   |
| <b>Official Symbol</b>     | CFB  |
| <b>Synonyms</b>            | CFB; complement factor B; B factor, properdin , BF, BFD; H2 Bf;  |
| <b>Gene ID</b>             | 629  |
| <b>mRNA Refseq</b>         | NM_001710  |
| <b>Protein Refseq</b>      | NP_001701  |
| <b>Uniprot ID</b>          | P00751   |
| <b>Chromosome Location</b> | 6p21.3   |
| <b>Pathway</b>             | 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; |

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**Function**

complement binding; peptidase activity; serine-type endopeptidase activity;

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