

Recombinant Human CFB, GST-tagged

Cat. No. CFB-11132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CFB protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	573-761a.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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

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; 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

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; Immune System, organism-specific biosystem; Initial triggering of complement, organism-specific biosystem;

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