

Product Name: Cleaved-Factor B Bb (K260) Rabbit Polyclonal Antibody Catalog #: APRab08986

For research use only.

Summary

Description Rabbit polyclonal Antibody

HostRabbitApplicationWB,ELISA

Reactivity Human, Mouse
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:10000-1:20000

Molecular Weight 57+85kDa

Antigen Information

Alternative Names

Gene Name CFB

CFB; BF; BFD; Complement factor B; C3/C5 convertase; Glycine-rich beta glycoprotein; GBG;

PBF2; Properdin factor B

 Gene ID
 629.0

 SwissProt ID
 P00751

The antiserum was produced against synthesized peptide derived from human CFAB Bb. AA Immunogen

range:241-290

Background

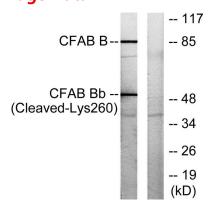


This gene encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic 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 complemencatalytic activity: Cleavage of Arg-|-Ser bond in complement component C3 alpha-chain to yield C3a and C3b, and Arg-|-Xaa bond in complement component C5 alpha-chain to yield C5a and C5b., function: Factor B which is part of the alternate pathway of the complement system is cleaved by factor D into 2 fragments: Ba and Bb. Bb, a serine protease, then combines with complement factor 3b to generate the C3 or C5 convertase. It has also been implicated in proliferation and differentiation of preactivated B-lymphocytes, rapid spreading of peripheral blood monocytes, stimulation of lymphocyte blastogenesis and lysis of erythrocytes. Ba inhibits the proliferation of preactivated B-lymphocytes, polymorphism: Two major variants, F and S, and 2 minor variants, as well as at least 14 very rare variants, have been identified. The variants His-9 and Gln-32 are associated with a reduced risk of age-related macular degeneration (ARMD) [MIM:603075]. ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world., similarity: Belongs to the peptidase S1 family,,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 1 VWFA domain.,similarity:Contains 3 Sushi (CCP/SCR) domains., subunit: Monomer.,

Research Area

Complement and coagulation cascades;

Image Data



Western blot analysis of lysates from K562 cells, treated with etoposide 25uM 1h, using CFAB Bb (Cleaved-Lys260) Antibody. The lane on the right is blocked with the synthesized peptide.

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