ARG44638
anti-Complement Factor B antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Complement Factor B (Bb Fragment)
Tested Reactivity	Hu
Tested Application	IP, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Target Name	Complement Factor B (Bb Fragment)
Species	Human
Conjugation	Un-conjugated
Alternate Names	CFB; Complement Factor B; Properdin Factor B; H2-Bf; BFD; BF; B-Factor, Properdin; C3/C5 Convertase; EC 3.4.21.47; Properdin B; PBF2; GBG; Glycine-Rich Beta-Glycoprotein; Glycine-Rich Beta Glycoprotein; C3 Proaccelerator; C3 Proactivator; EC 3.4.21; ARMD14; AHUS4; FBI12; CFAB; CFBD; FB

Application Instructions

Application table

Application	Dilution
IP	10 µg/mL
WB	1 µg/mL

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

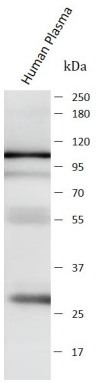
Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
Preservative	0.09% sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

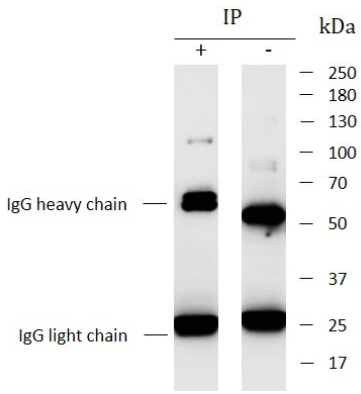
Gene Symbol	CFB
Gene Full Name	Complement Factor B
Background	This gene encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement 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 complement component 2. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	86 kDa
PTM	Cleavage on pair of basic residues, Disulfide bond, Glycation, Glycoprotein, Zymogen. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG44638 anti-Complement Factor B antibody WB image

Western blot: stained with ARG44638 anti-Complement Factor B antibody at 1 µg/mL dilution.



ARG44638 anti-Complement Factor B antibody IP image

Immunoprecipitation: KT21 lysate immunoprecipitated with 2.5 µg of ARG44638 anti-Complement Factor B antibody.