

Rabbit Factor I Polyclonal Antibody | anti-CFI antibody

Anti-Factor I Antibody

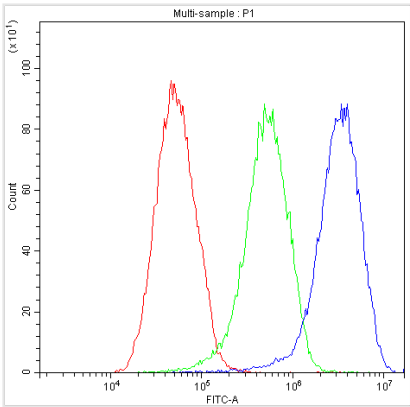
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46611	Rabbit	Human, Rat No cross reactivity with other proteins.	Western Blot

PRODUCT SYNONYMS

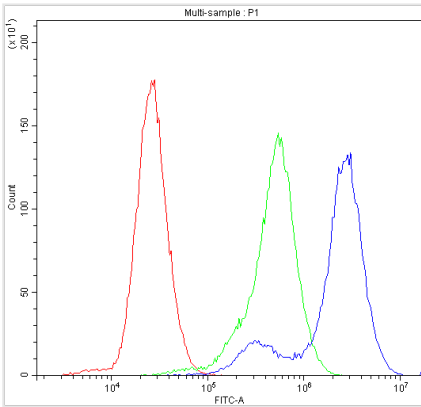
Factor I; Polyclonal Antibody; Anti-Factor I Antibody; AHUS3; ARMD13; C3b INA; C3BINA; C3b inactivator; C3B/C4B inactivator; Cfi; Complement component I; Complement factor I; F1; factorI; factor I; I factor; IF; KAF; P05156; anti-CFI antibody

PRODUCT SPECIFICATIONS

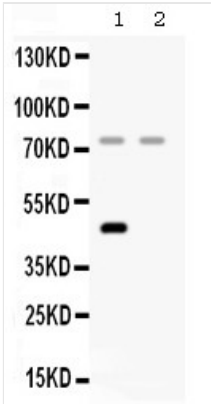
Host	Rabbit
Reactivity	Human, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	583
Applicable Applications for anti-CFI antibody	WB (Western Blot)
Immunogen	E Coli-derived human Factor I recombinant protein (Position: K19-D220). Human Factor I shares 70.7% and 71.2% amino acid (aa) sequence identity with mouse and rat Factor I, respectively.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of HEPG2 cells using anti-Factor I antibody (AAA46611).Overlay histogram showing HEPG2 cells stained with AAA46611 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Factor I Antibody (AAA46611,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U-87 cells using anti-Factor I antibody (AAA46611).Overlay histogram showing U-87 cells stained with AAA46611 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Factor I Antibody (AAA46611,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Factor I using anti- Factor I antibody (AAA46611).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat liver tissue lysates,Lane 2: HELA whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Factor I antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Factor I at approximately 75KD; 45KD. The expected band size for Factor I is at 66KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CFI antibody

Rabbit IgG polyclonal antibody for Complement factor I (CFI) detection.
Background: Complement factor I, also known as C3b/C4b inactivator, is a protein that in humans is encoded by the CFI gene. This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uremic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immune deposits and age-related macular degeneration are other conditions associated with mutations of this gene.

References	1. "Entrez Gene: complement factor I". 2. Goldberger G, Bruns GA, Rits M, Edge MD, Kwiatkowski DJ (Jul 1987). "Human complement factor I: analysis of cDNA-derived primary structure and assignment of its gene to chromosome 4". The Journal of Biological Chemistry 262 (21): 10065-71.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119392081
NCBI GeneID	3426
NCBI Accession #	NP_000195.2
NCBI GenBank Nucleotide #	NM_000204.4
UniProt Accession #	P05156; O60442
Molecular Weight	65,750 Da
NCBI Official Full Name	complement factor I isoform 2 preproprotein
NCBI Official Synonym Full Names	complement factor I
NCBI Official Symbol	CFI
NCBI Official Synonym Symbols	FI; IF; KAF; AHUS3; ARMD13; C3BINA; C3b-INA
NCBI Protein Information	complement factor I
UniProt Protein Name	Complement factor I
UniProt Gene Name	CFI
UniProt Synonym Gene Names	IF
UniProt Entry Name	CFAI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/factor-i-antibody-western-blot-elisa/46611>