

Rabbit anti-Mouse, Rat Factor H/Cfh Polyclonal Antibody | anti-Cfh antibody

Anti-Factor H/Cfh Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125560	Rabbit	Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

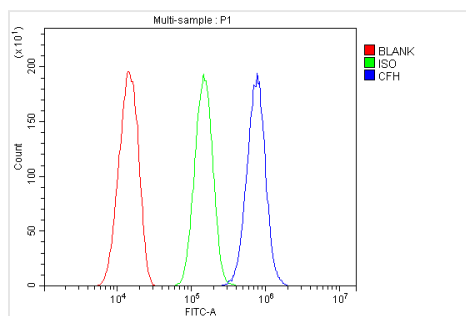
PRODUCT SYNONYMS

Factor H/Cfh; Polyclonal Antibody; Anti-Factor H/Cfh Antibody; Cfh; Hf1; Complement factor H; Protein beta-1-H; complement component factor h; anti-Cfh antibody

PRODUCT SPECIFICATIONS

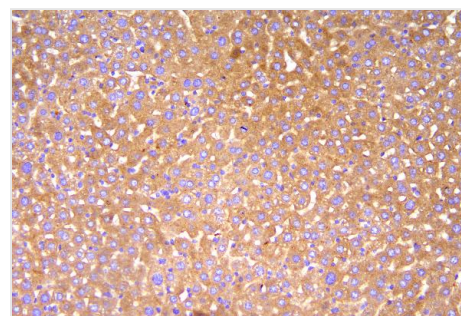
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Factor H/Cfh detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-Cfh antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse Factor H/Cfh recombinant protein (Position: N136-T447).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG () for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit () for IHC(P).
Preparation and Storage	Store 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.

IMAGES



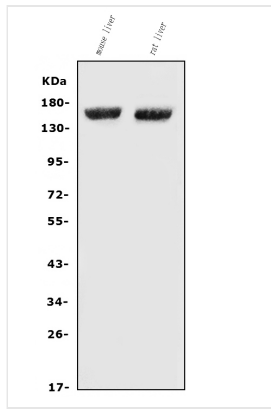
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEPA1-6 cells using anti-Factor H/Cfh antibody (AAA125560). Overlay histogram showing HEPA1-6 cells stained with AAA125560 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Factor H/Cfh Antibody (AAA125560, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Factor H/Cfh using anti-Factor H/Cfh antibody (AAA125560). Factor H/Cfh was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-Factor H/Cfh Antibody (AAA125560) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
 Figure 1. Western blot analysis of Factor H/Cfh using anti-Factor H/Cfh antibody (AAA125560). 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 30ug of sample under reducing conditions. Lane 1: mouse liver tissue lysates Lane 2: rat liver tissue 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 H/Cfh antigen affinity purified polyclonal antibody with Tanon 5200 system. A specific band was detected for Factor H/Cfh at approximately 150KD. The expected band size for Factor H/Cfh is at 150KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Cfh antibody	Factor H is a member of the regulators of complement activation family and is a complement control protein. This gene is a member of the Regulator of Complement Activation (RCA) gene cluster and encodes a protein with twenty short consensus repeat (SCR) domains. This protein is secreted into the bloodstream and has an essential role in the regulation of complement activation, restricting this innate defense mechanism to microbial infections. Mutations in this gene have been associated with hemolytic-uremic syndrome (HUS) and chronic hypocomplementemic nephropathy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
References	1. Abrera-Abeleda, M. A., Nishimura, C., Smith, J. L. H., Sethi, S., McRae, J. L., Murphy, B. F., Silvestri, G., Skerka, C., Jozsi, M., Zipfel, P. F., Hageman, G. S., Smith, R. J. H. Variations in the complement regulatory genes factor H (CFH) and factor H related 5 (CFHR5) are associated with membranoproliferative glomerulonephritis type II (dense deposit disease). J. Med. Genet. 43: 582-589, 2006. 2. Arakawa, S., Takahashi, A., Ashikawa, K., Hosono, N., Aoi, T., Yasuda, M., Oshima, Y., Yoshida, S., Enaida, H., Tsuchihashi, T., Mori, K., Honda, S., Negi, A., Arakawa, A., Kadonosono, K., Kiyohara, Y., Kamatani, N., Nakamura, Y., Ishibashi, T., Kubo, M. Genome-wide association study identifies two susceptibility loci for exudative age-related macular degeneration in the Japanese population. Nature Genet. 43: 1001-1004, 2011. 3. Ault, B. H., Schmidt, B. Z., Fowler, N. L., Kashtan, C. E., Ahmed, A. E., Vogt, B. A., Colten, H. R. Human factor H deficiency: mutations in framework cysteine residues and block in H protein secretion and intracellular catabolism. J. Biol. Chem. 272: 25168-25175, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	109627652
NCBI GeneID	12628
NCBI Accession #	NP_034018.2
NCBI GenBank Nucleotide #	NM_009888.3
UniProt Accession #	P06909; Q6NZK3
NCBI Official Full Name	complement factor H
NCBI Official Synonym Full Names	complement component factor h
NCBI Official Symbol	Cfh
NCBI Official Synonym Symbols	NOM; Sas1; Mud-1; Sas-1

NCBI Protein Information	complement factor H
UniProt Protein Name	Complement factor H
UniProt Gene Name	Cfh
UniProt Synonym Gene Names	Hf1
UniProt Entry Name	CFAH_MOUSE

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-h-cfh-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/125560>