

Rabbit anti-Human, Mouse FBP1 Polyclonal Antibody | anti-FBP1 antibody

Anti-FBP1 Antibody Picoband

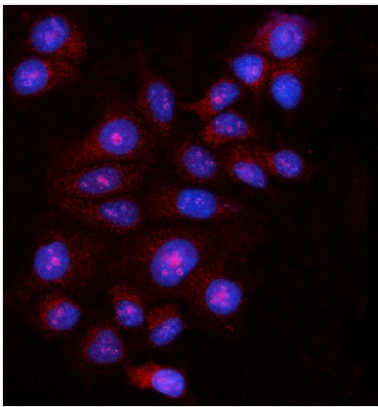
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126136	Rabbit	Human, Mouse	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

FBP1; Polyclonal Antibody; Anti-FBP1 Antibody Picoband; anti-FBP1 antibody

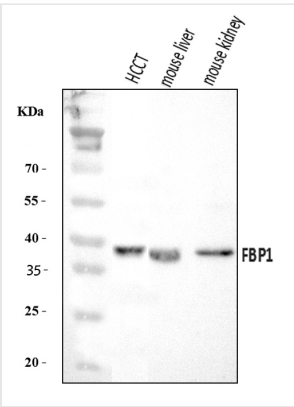
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CFHR1
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-FBP1 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<20 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of FBP1 using anti-FBP1 antibody (AAA126136). FBP1 was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-FBP1 Antibody (AAA126136) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of FBP1 using anti-FBP1 antibody (AAA126136). 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 30 ug of sample under reducing conditions. Lane 1: human HCCT tissue lysates, Lane 2: mouse liver tissue lysates, Lane 3: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-FBP1 antigen affinity purified polyclonal antibody (#AAA126136) at 0.5 ug/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 1:5000 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 FBP1 at approximately 37 kDa. The expected band size for FBP1 is at 37 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-FBP1 antibody	Background: Complement factor H-related protein 1 is a protein that in humans is encoded by the CFHR1 gene. This gene encodes a secreted protein belonging to the complement factor H protein family. It binds to Pseudomonas aeruginosa elongation factor Tuf together with plasminogen, which is proteolytically activated. It is proposed that Tuf acts as a virulence factor by acquiring host proteins to the pathogen surface, controlling complement, and facilitating tissue invasion. Mutations in this gene are associated with an increased risk of atypical hemolytic-uremic syndrome. Principle of the Assay: The Picokine™ Human CFHR1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CFHR1 with a 96-well strip plate that is pre-coated with antibody specific for CFHR1. The detection antibody is a biotinylated antibody specific for CFHR1. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CFHR1 with immunogen: Expression system for standard: NS0; Immunogen sequence: E19-R330. The kit is analytically validated with ready-to-use reagents. To measure Human CFHR1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CFHR1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CFHR1 in the sample.
Product Categories/Family for anti-FBP1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	16579888
NCBI GeneID	2203
NCBI Accession #	NP_000498.2

NCBI GenBank Nucleotide #	NM_000507.3
UniProt Accession #	P09467 ; O75571 ; Q53F94 ; Q96E46
Molecular Weight	36,842 Da
NCBI Official Full Name	fructose-1,6-bisphosphatase 1
NCBI Official Synonym Full Names	fructose-1,6-bisphosphatase 1
NCBI Official Symbol	FBP1
NCBI Official Synonym Symbols	FBP
NCBI Protein Information	fructose-1,6-bisphosphatase 1; D-fructose-1,6-bisphosphate 1-phosphohydrolase 1; FBPase 1; fructose-bisphosphatase 1; growth-inhibiting protein 17; liver FBPase
UniProt Protein Name	Fructose-1,6-bisphosphatase 1
UniProt Gene Name	FBP1
UniProt Synonym Gene Names	FBP; FBPase 1
UniProt Entry Name	F16P1_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/fbp1-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/126136>