

Rabbit anti-Human PFKFB1 Polyclonal Antibody | anti-PFKFB1 antibody

Anti-PFKFB1 Antibody Picoband

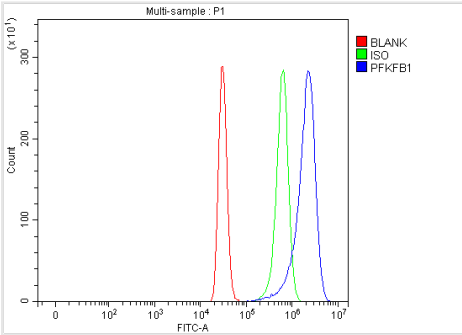
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19903	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PFKFB1; Polyclonal Antibody; Anti-PFKFB1 Antibody Picoband; Disintegrin and metalloproteinase domain-containing protein 2; ADAM 2; Cancer/testis antigen 15; CT15; Fertilin subunit beta; PH-30; PH30; PH30-beta; ADAM2; FTNB; anti-PFKFB1 antibody

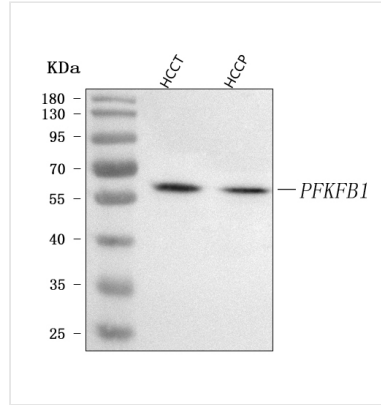
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed specifically in spermatogenic cells in the seminiferous cells. Not detected in fetal tissues.
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 .
Applicable Applications for anti-PFKFB1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human PFKFB1 recombinant protein (Position: R12-R186).
Subcellular Localization	Membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Sperm surface membrane protein that may be involved in sperm-egg plasma membrane adhesion and fusion during fertilization. Could have a role in sperm-zona binding or migration of sperm from the uterus into the oviduct. Interactions with egg membrane could be mediated via binding between its disintegrin-like domain to one or more integrins receptors on the egg. This is a non catalytic metalloprotease-like protein.
Preparation and Storage	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.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of HepG2 cells using anti-PFKFB1 antibody (AAA19903). Overlay histogram showing HepG2 cells stained with AAA19903 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PFKFB1 Antibody (AAA19903, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG 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.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of PFKFB1 using anti-PFKFB1 antibody (AAA19903). PFKFB1 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PFKFB1 Antibody (AAA19903) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PFKFB1 Antibody (AAA19903) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PFKFB1 Antibody (AAA19903) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PFKFB1 Antibody (AAA19903) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human hepatocellular carcinoma paracancerous tissue (HCCP) 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-PFKFB1 antigen affinity purified polyclonal antibody (#AAA19903) 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (55 kDa).

ADDITIONAL INFORMATION

Related Product Information for anti-PFKFB1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PFKFB1 antibody	Primary Antibodies ; Cancer ; Cell Biology ; Cytoskeleton/ECM ; ECM Enzymes ; Extracellular Matrix ; Invasion/Microenvironment ; Metalloprotease ; Proteolysis/Ubiquitin ; Proteolytic Enzymes ; Signal Transduction
References	1. Algaier, J., Uyeda, K. Molecular cloning, sequence analysis, and expression of a human liver cDNA coding for fructose-6,2-kinase:fructose-2,6-bisphosphatase. <i>Biochem. Biophys. Res. Commun.</i> 153: 328-333, 1988. 2. Batra, R. S., Hatchwell, E., Rider, S., Brown, R., Brown, G. K., Craig, I. W. Localization of human liver 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase (PFKFB1) within a YAC contig in Xp11.21. <i>Genomics</i> 40: 358-361, 1997. 3. Darville, M. I., Crepin, K. M., Vanderkerckhove, J., Van Damme, J., Octave, J. N., Rider, M. H., Marchand, M. J., Hue, L., Rousseau, G. G. Complete nucleotide sequence coding for rat liver 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase derived from a cDNA clone. <i>FEBS Lett.</i> 224: 317-321, 1987.

NCBI AND UNIPROT INFORMATION

NCBI GI #	424036667
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NCBI GeneID	5207
NCBI Accession #	NP_001258733.1
NCBI GenBank Nucleotide #	NM_001271804.1
UniProt Accession #	P16118; Q5JXS5; Q99951; B2RA88
Molecular Weight	54,681 Da
NCBI Official Full Name	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1 isoform 2
NCBI Official Synonym Full Names	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1
NCBI Official Symbol	PFKFB1
NCBI Official Synonym Symbols	F6PK; HL2K; PFRX
NCBI Protein Information	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1; PFK/FBPase 1; 6PF-2-K/Fru-2,6-P2ase 1; 6PF-2-K/Fru-2,6-P2ASE liver isozyme; fructose-6-phosphate,2-kinase:fructose-2,6-bisphosphatase
UniProt Protein Name	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1
UniProt Gene Name	PFKFB1
UniProt Synonym Gene Names	F6PK; PFRX; 6PF-2-K/Fru-2,6-P2ase 1
UniProt Entry Name	F261_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/pfkfb1-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19903>