

Rabbit anti-Human PFKFB3 Polyclonal Antibody | anti-PFKFB3 antibody

Anti-PFKFB3 Antibody, Rabbit Polyclonal

CATALOG # AAA256647	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot
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PRODUCT SYNONYMS

PFKFB3; Polyclonal Antibody; Anti-PFKFB3 Antibody; Rabbit Polyclonal; PFKFB3 Antibody; Rabbit PAb; Antigen Affinity Purified; 6-phosphofructo-2-kinase/fructose-2; 6-biphosphatase 3; Anti-IPFK2 Antibody; Anti-PFK2 Antibody; anti-PFKFB3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PFKFB3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PFKFB3 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human PFKFB3 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PFKFB3 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

PFKFB3 was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate 4 uL anti-PFKFB3 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PFKFB3 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 60 kDa. Observed band size: 70 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of PFKFB3 in A549 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human PFKFB3 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



WB (Western Blot)

Anti-PFKFB3 rabbit polyclonal antibody at 1:2000 dilution Lane A: Jurkat Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 60 kDa Observed band size: 70 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PFKFB3 antibody	Fructose-2, 6-biphosphatase 3, also known as 6-phosphofructo-2-kinase or PFK2 or PFKFB3, is a potent activator of phosphofructokinase, which is a rate-limiting enzyme of glycolysis. Highly phosphorylated PFKFB3 protein was found in human tumor cells, vascular endothelial cells, and smooth muscle cells. Fructose 2, 6-bisphosphate (Fru-2, 6-BP) is an allosteric activator of 6-phosphofructo-1-kinase (PFK-1), a rate-limiting enzyme and essential control point in glycolysis. The concentration of PFK2 depends on the activity of the bifunctional enzyme, 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase (PFK-2/FBPase). PFK2 controls the glycolytic flux via the allosteric activator fructose 2, 6-bisphosphate. Because of its proto-oncogenic character, the PFK-2/FBPase-2 of the PFKFB3 gene is assumed to play a critical role in tumorigenesis. The hypoxia-inducible form of 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase (PFKFB3) plays a crucial role in the progression of cancerous cells by enabling their glycolytic pathways even under severely hypoxic conditions.
Product Categories/Family for anti-PFKFB3 antibody	AMPK Signaling Pathway
References	Kessler R, et al. (2008) 6-Phosphofructo-2-kinase/fructose-2, 6-bisphosphatase (PFKFB3) is up-regulated in high-grade astrocytomas. J Neurooncol. 86(3):257-64. Yalcin A, et al. (2009) Nuclear targeting of 6-phosphofructo-2-kinase (PFKFB3) increases proliferation via cyclin-dependent kinases. J Biol Chem. 284(36):24223-32. Atsumi T, et al. (2002) High expression of inducible 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase (iPFK-2; PFKFB3) in human cancers. Cancer Res. 262(20): 5881-7. Kim SG, et al. (2006) Crystal structure of the hypoxia-inducible form of 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase (PFKFB3): a possible new target for cancer therapy. J Biol Chem. 281(5): 2939-44.

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/pfkfb3-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/256647>