

Rabbit PFKM Polyclonal Antibody | anti-PFKM antibody

PFKM Antibody

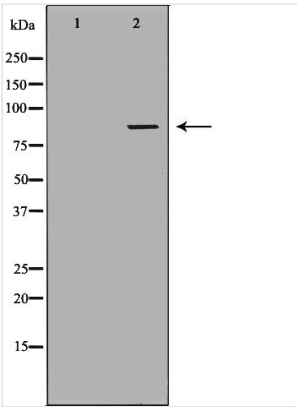
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327063	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PFKM; Polyclonal Antibody; PFKM Antibody; 6 Phosphofructokinase Muscle Type; 6-phosphofructokinase; 6-phosphofructokinase muscle type; EC 2.7.1.1; EC 2.7.1.11; GSD7; K6PF_HUMAN; MGC8699; muscle type; PFK; PFK-A; PFKA; PFKL; PFKP; PFKX; Phosphofructo 1 Kinase Isozyme A; Phosphofructo-1-kinase isozyme A; Phosphofructokinase 1; Phosphofructokinase M; Phosphofructokinase; muscle; polypeptide X; Phosphofructokinase-M; Phosphohexokinase; anti-PFKM antibody

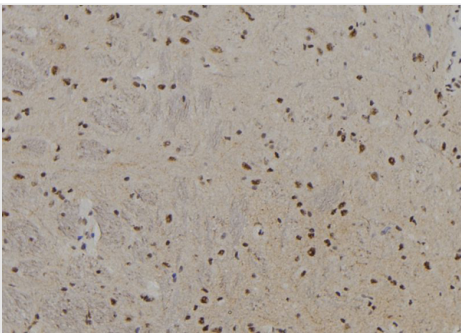
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PFKM antibody detects endogenous levels of total PFKM
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	780
Applicable Applications for anti-PFKM antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PFKM
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using PFKM Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA327063 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PFKM antibody

Description: Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1, 6-bisphosphate. Tetramer composition varies depending on tissue type. This gene encodes the muscle-type isozyme. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease. Alternatively spliced transcript variants have been described. Function: Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1, 6-bisphosphate by ATP, the first committing step of glycolysis. Subunit Structure: Homo- and heterotetramers (By similarity). Phosphofructokinase (PFK) enzyme functions as a tetramer composed of different combinations of 3 types of subunits, called PFKM (where M stands for Muscle), PFKL (Liver) and PFKP (Platelet). The composition of the PFK tetramer differs according to the tissue type it is present in. In muscles, it is composed of 4 PFKM subunits (also called M4). In the liver, the predominant form is a tetramer of PFKL subunits (L4). In erythrocytes, both PFKM and PFKL subunits randomly tetramerize to form M4, L4 and other combinations (ML3, M2L2, M3L). The kinetic and regulatory properties of the tetrameric enzyme are dependent on the subunit composition, hence can vary across tissues (Probable). Interacts (via C-terminus) with HK1 (via N-terminal spermatogenic cell-specific region) (By similarity). Post-translational Modifications: GlcNAcylation decreases enzyme activity. Similarity: Belongs to the phosphofructokinase type A (PFKA) family. ATP-dependent PFK group I subfamily. Eukaryotic two domain clade "E" sub-subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505749
NCBI GeneID	5213
NCBI Accession #	NP_000280.1
NCBI GenBank Nucleotide #	NM_000289.6
UniProt Accession #	P08237; Q16814; Q16815; Q6ZTT1; J3KNX3
Molecular Weight	Observed: 85 kDa Predicted: 86 kDa
NCBI Official Full Name	ATP-dependent 6-phosphofructokinase, muscle type isoform 2
NCBI Official Synonym Full Names	phosphofructokinase, muscle
NCBI Official Symbol	PFKM
NCBI Official Synonym Symbols	GSD7; PFK1; PFKA; PFKX; PFK-1; PFK-A; ATP-PFK; PPP1R122
NCBI Protein Information	ATP-dependent 6-phosphofructokinase, muscle type

UniProt Protein Name	ATP-dependent 6-phosphofructokinase, muscle type
UniProt Gene Name	PFKM
UniProt Synonym Gene Names	PFKX; ATP-PFK

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/pfkm-antibody-immunohistochemistry-western-blot-elisa/327063>