PFKP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PFKP, Polyclonal Antibody
Full Product Name	PFKP Rabbit pAb
Product Gene Name	anti-PFKP antibody
Product Synonym Names	PFKF; PFK-C; PFK-P; ATP-PFK
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	86kDa
OMIM	171840
3D Structure	ModBase 3D Structure for Q01813
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 605-784 of human PFKP (NP_002618.1).
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PFKP antibody	Western Blot (WB)
Application Notes for anti-PFKP antibody	WB: 1:500-1:2000
Related Product Information for anti-PFKP antibody	Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis. In human PFK exists as a system of 3 types of subunits, PFKM (muscle), PFKL (liver) and PFKP (platelet) isoenzymes.
Other Notes	Small volumes of anti-PFKP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PFKP purchase	MBS8548150 is an antibody targeting PFKP. Also known as PFKP Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PFKP. It may not necessarily be applicable to this product.

NCBI GI #	334191701
NCBI GeneID	5214
NCBI Accession #	NP_001229268.1

UniProt Primary Accession #	Q01813
GenBank Nucleotide #	NP_001229268.1
NCBI Official Full Name	ATP-dependent 6-phosphofructokinase, platelet type isoform 2
UniProt Protein Name	6-phosphofructokinase type C
UniProt Synonym Protein Names	6-phosphofructokinase, platelet type; Phosphofructo-1-kinase isozyme C; PFK-C; Phosphofructokinase 1; Phosphohexokinase
Protein Family	ATP-dependent 6-phosphofructokinase
UniProt Gene Name	PFKP
UniProt Synonym Gene Names	PFKF; PFK-C
UniProt Entry Name	K6PP_HUMAN
UniProt Comments for PFKP	PFKP: phosphofructokinase, platelet type. An ubiquitous metabolic enzyme involved in the synthesis and degradation of fructose 2,6-bisphosphate. Key control step of glycolysis. An allosteric enzyme activated by ADP, AMP, or fructose bisphosphate and inhibited by ATP or citrate. Activity: ATP D-fructose 6-phosphate = ADP D-fructose 1,6-bisphosphate. The holoenzyme consists of 4 subunits. The liver and muscle enzymes are homo-tetramers of four liver or muscle isoforms, respectively. The red blood cell enzyme consists hetero-tetramers of the muscle and liver isoforms. A subunit composition with a higher proportion of platelet type subunits is found in platelets, brain and fibroblasts. Protein type: Carbohydrate Metabolism - pentose phosphate pathway; Kinase, other; Carbohydrate Metabolism - galactose; Carbohydrate Metabolism - fructose and mannose; EC 2.7.1.11; Carbohydrate Metabolism - glycolysis and gluconeogenesis Chromosomal Location of Human Ortholog: 10p15.3-p15.2 Cellular Component: membrane; nucleus; cytosol Molecular Function: metal ion binding; protein complex binding; 6-phosphofructokinase activity; ATP binding Biological Process: glycolysis; carbohydrate metabolic process; carbohydrate phosphorylation; glucose metabolic process; pathogenesis; fructose 6-phosphate metabolic process
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