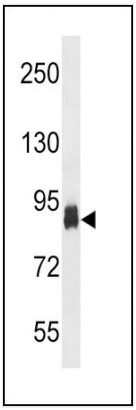
PFKP Antibody – Rabbit Polyclonal

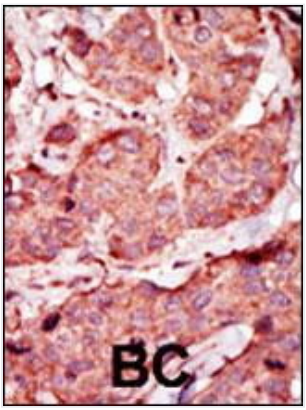
PRODUCT OVERVIEW

Product Name	PFKP, Polyclonal Antibody
Full Product Name	PFKP, CT (PFKP, PFKF, 6-phosphofructokinase type C, 6-phosphofructokinase, platelet type, Phosphofructo-1-kinase isozyme C, Phosphofructokinase 1, Phosphohexokinase) (Azide free) (HRP)
Product Gene Name	anti-PFKP antibody
Product Synonym Names	PFKP; PFKF; 6-phosphofructokinase type C; 6-phosphofructokinase; platelet type; Phosphofructo-1-kinase isozyme C; Phosphofructokinase 1; Phosphohexokinase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human PFKP.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	85,596 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (3109712..3178997). Location: 10p15.3-p15.2
OMIM	171840
3D Structure	ModBase 3D Structure for Q01813
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 754-784 in the C-terminal region of human PFKP, UniProt Accession #Q01813.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-PFKP antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PFKP antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-PFKP antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-PFKP antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK).
Product References and Citations for anti-PFKP antibody	1. Adam, G.C., et al., Mol. Cell Proteomics 1(10):828-835 (2002). 2. Bonaldo, M.F., et al., Genome Res. 6(9):791-806 (1996). 3. Morrison, N., et al., Hum. Genet. 89(1):105-106 (1992). 4. Simpson, C.J., et al., Biochem. Biophys. Res. Commun. 180(1):197-203 (1991). 5. Nakajima, H., et al., FEBS Lett. 223(1):113-116 (1987).
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	MBS6332896 is an antibody targeting PFKP. Also known as PFKP, CT (PFKP, PFKF, 6-phosphofructokinase type C, 6-phosphofructokinase, platelet type, Phosphofructo-1-kinase isozyme C, Phosphofructokinase 1, Phosphohexokinase) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PFKP antibody
Western Blot analysis in T47D cell line lysates (35ug/lane) usingMBS6008356. This demonstrates that MBS6008356 detected the PFKP protein (arrow).



Immunohistochemistry (IHC) of anti-PFKP antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human cancer tissue reacted withMBS6008356, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of MBS6008356 for immunohistochemistry. BC = breast carcinoma; HC = hepatocarcinoma.

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
UniProt Secondary Accession #	Q5VSR7; Q5VSR8; B3KS15
UniProt Related Accession #	Q01813
GenBank Nucleotide #	NM_001242339.1
NCBI Official Full Name	6-phosphofructokinase type C isoform 2
NCBI Official Synonym Full Names	phosphofructokinase, platelet
NCBI Official Symbol	PFKP

NCBI Official Synonym Symbols	PFKF; PFK-C
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
NCBI Protein Information	6-phosphofructokinase type C; phosphohexokinase; phosphofructokinase 1; phosphofructo-1-kinase isozyme C; Phosphofructokinase, platelet type; 6-phosphofructokinase, platelet type
NCBI Summary for PFKP	The PFKP gene encodes the platelet isoform of phosphofructokinase (PFK) (ATP:D-fructose-6-phosphate-1-phosphotransferase, EC 2.7.1.11). PFK catalyzes the irreversible conversion of fructose-6-phosphate to fructose-1,6-bisphosphate and is a key regulatory enzyme in glycolysis. The PFKP gene, which maps to chromosome 10p, is also expressed in fibroblasts. See also the muscle (PFKM; MIM 610681) and liver (PFKL; MIM 171860) isoforms of phosphofructokinase, which map to chromosomes 12q13 and 21q22, respectively. Vora (1981) [PubMed 6451249] determined that full tetrameric phophofructokinase enzyme expressed in platelets can be composed of subunits P4, P3L, and P2L2.[supplied by OMIM, Mar 2008]
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
Research Articles on PFKP	**1.** KLF4 plays a role in maintenance of high glycolytic metabolism by transcriptional activation of the PFKP gene in breast cancer cells.
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