

Mouse Anti-PFKP antibody

SLM-51630M

Product Name	PFKP
Chinese Name	6-磷酸果糖激酶 C 单克隆抗体
Alias	1200015H23Rik; 6 phosphofructokinase type C; 6 phosphofructokinase, platelet type; 6-phosphofructokinase; 6-phosphofructokinase type C; 9330125N24Rik; FLJ40226; K6PP; K6PP_HUMAN; MGC105718; PFK C; PFK, fibroblast type; PFK-C; PFKF; Phosphofructo 1 kinase isozyme C; Phosphofructo-1-kinase isozyme C; Phosphofructokinase 1; Phosphofructokinase platelet; Phosphohexokinase; platelet type.
Research Area	Tumour Cell biology Signal transduction Kinases and Phosphatases
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	G8D1
React Species	Human,Mouse,Monkey WB=1:500-2000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	86kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human PFKP between 40-300 amino acids.
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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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 phosphofructokinase enzyme expressed in platelets can be composed of subunits P4, P3L, and P2L2.[supplied by OMIM, Mar 2008]

Function:

Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis.

Subunit:

Homo- and heterotetramers. Muscle is M4, liver is L4, and red cell is M3L, M2L2, or ML3. A subunit composition with a higher proportion of platelet type subunits is found in platelets, brain and fibroblasts.

Product Detail

Subcellular Location:

Cytoplasm.

Tissue Specificity:

GlcNAcylation decreases enzyme activity.

Similarity:

Belongs to the phosphofructokinase family. Two domains subfamily.

SWISS:

Q01813

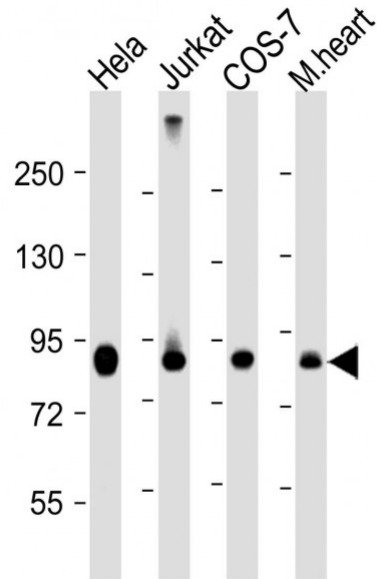
Gene ID:

5214

Database links:

[Entrez Gene: 5214](#) Human

[SwissProt: Q01813](#) Human



Product Picture

Sample:

Lane 1: HeLa cell lysates

Lane 2: Jurkat cell lysates

Lane 3: COS-7 cell lysates

Lane 4: Mouse heart tissue lysates

Primary: Anti-PFKP (SLM-51630M) at 1/4000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 86 kD

Observed band size: 86 kD