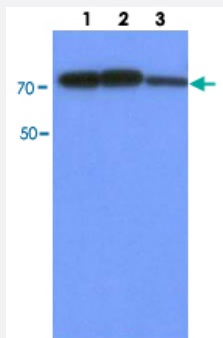


PFKM monoclonal antibody, clone AT2F11

Catalog # MAB11205 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of HepG2 cell lysate (30 ug) by using PFKM monoclonal antibody, clone AT2F11 (Cat # MAB11205) (1:500-1:2000). Lane1: 1:500. Lane2: 1:1000. Lane 3: 1:2000. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant PFKM.
Immunogen	Recombinant protein corresponding to amino acids 1-780 of human PFKM.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Concentration	1 mg/mL
Isotype	IgG2a, kappa
Recommend Usage	ELISA Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PFKM

Entrez GeneID[5213](#)**Protein Accession#**[NP_000280](#)**Gene Name**

PFKM

Gene Alias

GSD7, MGC8699, PFK-1, PFK-M, PFKX

Gene Description

phosphofructokinase, muscle

Omim ID[232800 610681](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The PFKM gene encodes the muscle 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. Mammalian PFK is a tetramer made up of various combinations of 3 subunits: muscle (PFKM), liver (PFKL; MIM 171860), and platelet (PFKP; MIM 171840), the genes for which are located on chromosomes 12q13, 21q22, and 10p, respectively. The composition of the tetramers differs according to the tissue type. Muscle and liver PFK are homotetramers of 4M and 4L subunits, respectively. Erythrocytes contain both L and M subunits, which randomly tetramerize to form M4, L4, and M3L, M2L2, and ML3 hybrid forms of the holoenzyme (Vora et al., 1980 [PubMed 6444721]; Raben and Sherman, 1995 [PubMed 7550225]). [supplied by OMIM]

Other Designations

phosphofructokinase, muscle type|phosphofructokinase, polypeptide X

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Fructose and mannose metabolism](#)
- [Galactose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pentose phosphate pathway](#)

Disease

- [Drug Toxicity](#)
- [Edema](#)
- [Hypercholesterolemia](#)
- [Tobacco Use Disorder](#)