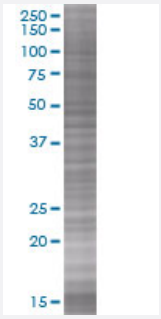
PFKM 293T Cell Transient Overexpression Lysate(Denatured)

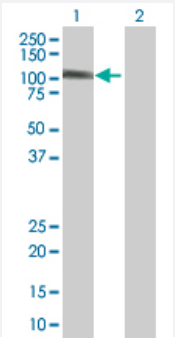
Catalog # H00005213-T01 Size 100 uL

Applications



SDS-PAGE Gel

PFKM transfected lysate



Western Blot

Lane 1: PFKM transfected lysate (85.2 KDa).
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-PFKM full-length
Host	Human
Theoretical MW (kDa)	85.2
Quality Control Testing	Transient overexpression cell lysate was tested with Anti-PFKM antibody (H00005213-B01) by Western Blots. SDS-PAGE Gel PFKM transfected lysate Western Blot Lane 1: PFKM transfected lysate (85.2 KDa). Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — PFKM

Entrez GeneID	5213
GeneBank Accession#	NM_000289
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 a 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