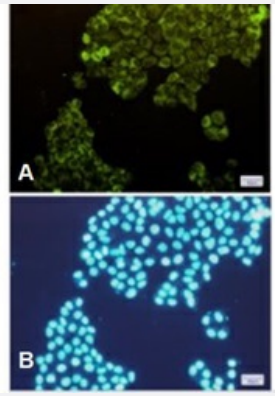
RecomAb™

PFKM recombinant monoclonal antibody, clone R08-6B4

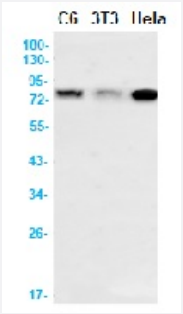
Catalog # RAB01718 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemical staining of Hela with Fructose 6 Phosphate Kinase recombinant monoclonal antibody, clone R08-6B4 (Cat # RAB01718). (A) Fructose 6 Phosphate Kinase (green) and (B) DAPI (blue).



Western Blot

Western blot analysis of Fructose 6 Phosphate Kinase in C6, 3T3, Hela lysates using human Fructose 6 Phosphate Kinase recombinant monoclonal antibody, clone R08-6B4 (Cat # RAB01718).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human Fructose 6 Phosphate Kinase.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human Fructose 6 Phosphate Kinase
Theoretical MW (kDa)	Calculated MW: 85 kD

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Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunocytochemistry

  Immunocytochemical staining of Hela with Fructose 6 Phosphate Kinase recombinant monoclonal antibody, clone R08-6B4 (Cat # RAB01718). (A) Fructose 6 Phosphate Kinase (green) and (B) DAPI (blue).

- Western Blot

  Western blot analysis of Fructose 6 Phosphate Kinase in C6, 3T3, Hela lysates using human Fructose 6 Phosphate Kinase recombinant monoclonal antibody, clone R08-6B4 (Cat # RAB01718).

Gene Info — PFKM

Entrez GeneID	5213
Protein Accession#	P08237
Gene Name	PFKM
Gene Alias	GSD7, MGC8699, PFK-1, PFK-M, PFKX
Gene Description	phosphofructokinase, muscle
Omim ID	232800 610681

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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

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- Hypercholesterolemia
- Tobacco Use Disorder

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