

Product Name: KD-Validated PFKM Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01496**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 85.2kDa

Antigen Information

Gene Name	PFKM
Alternative Names	PFKM; Phosphofructokinase, Muscle; PPP1R122; PFK-1; PFKX; ATP-Dependent 6-Phosphofructokinase, Muscle Type; Protein Phosphatase 1, Regulatory Subunit 122; Phosphofructokinase, Polypeptide X; Phosphofructo-1-Kinase Isozyme A; 6-Phosphofructokinase Type A; Phosphohexokinase; EC 2.7.1.11; ATP-PFK; PFK-A; 6-Phosphofructokinase, Muscle Type; 6-Phosphofructo-1-Kinase; Phosphofructokinase 1; Phosphofructokinase-M; EC 2.7.1; PFK-M; GSD7; PFK1; PFKA
Gene ID	5213.0
SwissProt ID	P08237
Immunogen	A synthesized peptide derived from human Fructose 6 Phosphate Kinase

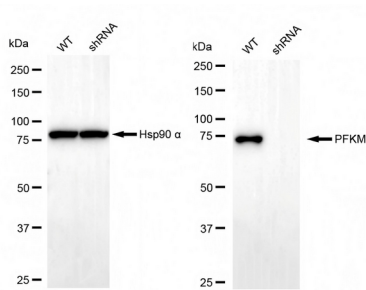
Background

Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. Tetramer composition varies depending on tissue type. This gene encodes the muscle-type isozyme. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease. Alternatively spliced transcript variants have been described.[provided by RefSeq, Nov 2009]

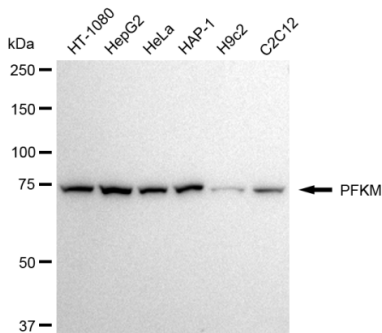
Research Area

Signal Transduction,Cancer,Metabolism

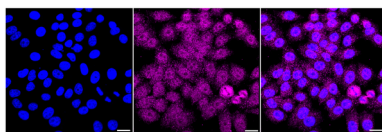
Image Data



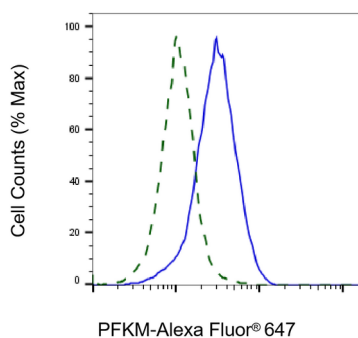
Western blotting analysis using PFKM antibody (KVA01496). PFKM expression in wild type (WT) and PFKM shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PFKM antibody (KVA01496, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



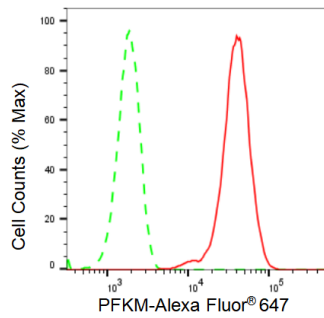
Western blotting analysis using PFKM antibody (KVA01496). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PFKM antibody (KVA01496, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with PFKM antibody (KVA01496, 1:1,000). Nuclei were stained blue with DAPI; PFKM was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of PFKM knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PFKM antibody (KVA01496, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of PFKM expression in HepG2 cells using PFKM antibody (KVA01496, 1:2,000). Green, isotype control; red, PFKM.