

ARG42606 anti-PFKM antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody recognizes PFKM
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Target Name	PFKM
Species	Human
Immunogen	Recombinant protein of Human PFKM.
Conjugation	Un-conjugated
Alternate Names	PFK-A; 6-phosphofruktokinase type A; PPP1R122; PFKX; ATP-dependent 6-phosphofruktokinase, muscle type; EC 2.7.1.11; Phosphofructo-1-kinase isozyme A; PFK1; ATP-PFK; GSD7; PFK-1; Phosphohexokinase; PFK-M; PFKA

Application Instructions

Application table	Application	Dilution
	FACS	1:50 - 1:100
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control	PC-3M
Observed Size	~ 82 kDa

Properties

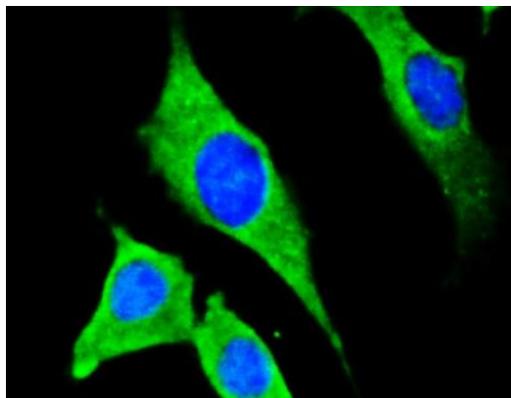
Form	Liquid
Purification	Purification with Protein A.
Buffer	TBS (pH 7.4), 0.05% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.05% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

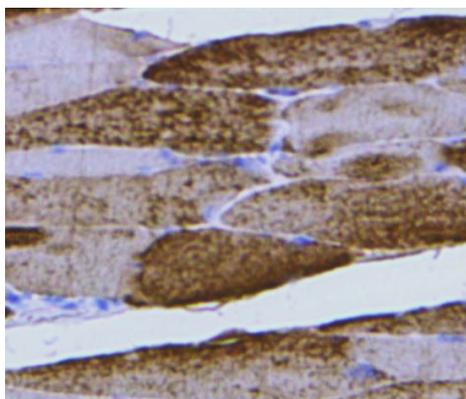
Gene Symbol	PFKM
Gene Full Name	phosphofructokinase, muscle
Background	Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. 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]
Function	Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis. [UniProt]
Calculated Mw	85 kDa
PTM	GlcNAcylation decreases enzyme activity. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



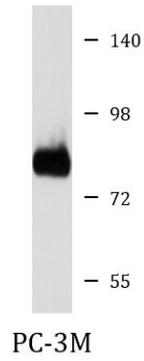
ARG42606 anti-PFKM antibody ICC/IF image

Immunofluorescence: SH-SY5Y cells were fixed in paraformaldehyde and permeabilized with 0.25% Triton X100/PBS. Cells were stained with ARG42606 anti-PFKM antibody (green). DAPI (blue) for nuclear staining.



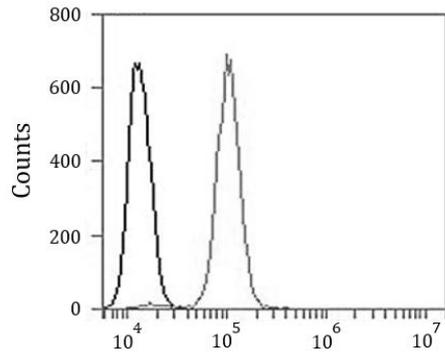
ARG42606 anti-PFKM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse skeletal muscle tissue stained with ARG42606 anti-PFKM antibody and counterstained with hematoxylin.



ARG42606 anti-PFKM antibody WB image

Western blot: PC-3M cell lysate stained with ARG42606 anti-PFKM antibody at 1:500 dilution.



ARG42606 anti-PFKM antibody FACS image

Flow Cytometry: SH-SY5Y cells stained with ARG42606 anti-PFKM antibody (right histogram) at 1:100 dilution or without primary antibody as control (left histogram), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.