ARG44722
anti-PFKM antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes PFKM
Tested Reactivity	Hu
Tested Application	IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	PFKM
Species	Human
Conjugation	Un-conjugated
Alternate Names	PFK-A; 6-phosphofructokinase type A; PPP1R122; PFKX; ATP-dependent 6-phosphofructokinase, 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
IHC-P	5-10 µg/mL
IP	10 µg/mL
WB	1 µg/mL

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

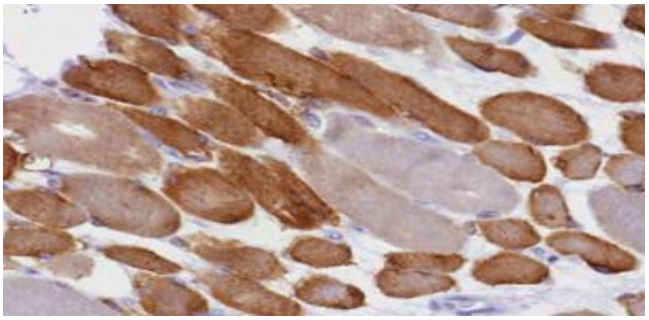
Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
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 or below. 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

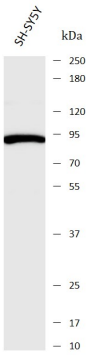
Gene Symbol	PFKM
Gene Full Name	phosphofructokinase, muscle
Background	Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. 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



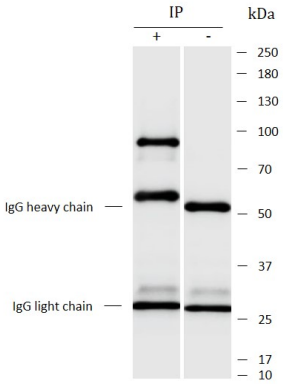
ARG44722 anti-PFKM antibody IHC-P image

Immunohistochemistry: Human skeletal muscle stained with ARG44722 anti-PFKM antibody at 5 µg/mL dilution.



ARG44722 anti-PFKM antibody WB image

Western blot: SH-SY5Y stained with ARG44722 anti-PFKM antibody at 1 µg/mL dilution.



ARG44722 anti-PFKM antibody IP image

Immunoprecipitation: SH-SY5Y lysate immunoprecipitated with 2.5 µg of ARG44722 anti-PFKM antibody.