

For Research Use Only

PFKP Polyclonal antibody

Catalog Number: 13389-1-AP

Featured Product

34 Publications



Basic Information

Catalog Number:

13389-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4047

GenBank Accession Number:

BC029138

GeneID (NCBI):

5214

UNIPROT ID:

Q01813

Full Name:

phosphofructokinase, platelet

Calculated MW:

784 aa, 86 kDa

Observed MW:

80-86 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, HeLa cells, BxPC-3 cells, human heart tissue, NIH/3T3 cells, mouse heart tissue, mouse skeletal muscle tissue, rat heart tissue, rat skeletal muscle tissue, Jurkat cells, MCF-7 cells, Raji cells

IP: Jurkat cells, mouse heart tissue

IHC: mouse heart tissue, human lung cancer tissue, human heart tissue, human spleen tissue

IF/ICC: HeLa cells, BxPC-3 cells

Background Information

PFKP(6-phosphofructokinase, platelet type) is also named as PFKF, PFK-C and belongs to the phosphofructokinase family. This form of PFK is best called the 'platelet' type and symbolized PFKP because it is the only form made by platelets, whereas fibroblasts have more than one form of PFK (Francke (1983)). PFK catalyzes the irreversible conversion of fructose-6-phosphate to fructose-1,6-bisphosphate and is a key regulatory enzyme in glycolysis. The observed molecular weight of PFKP monomer is 80-86 kDa. The molecular mass of PFKP dimer is 171 kDa (PMID: 28607489).

Notable Publications

Author	Pubmed ID	Journal	Application
Minzhe Zhu	33059001	Biochim Biophys Acta Mol Basis Dis	WB
Xiaohan Jin	36243112	J Biol Chem	WB
Xuqian Deng	32422139	Biochem Pharmacol	WB,IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

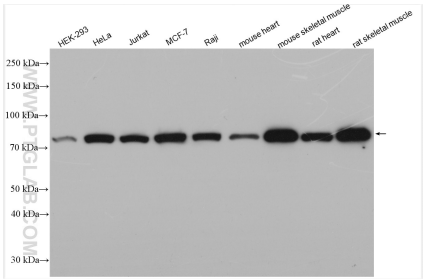
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

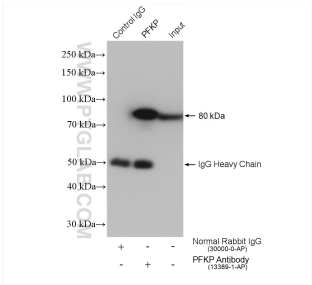
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

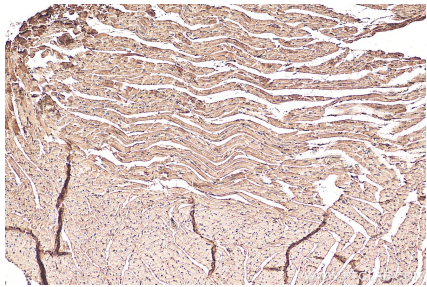
Selected Validation Data



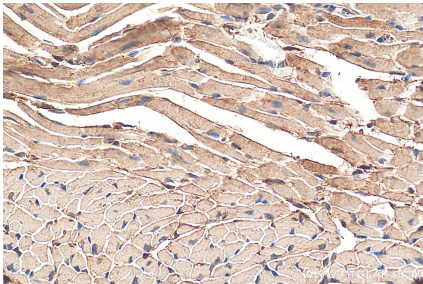
Various lysates were subjected to SDS PAGE followed by western blot with 13389-1-AP (PFKP antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



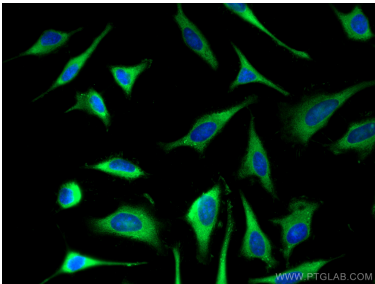
IP result of anti-PFKP (IP:13389-1-AP, 4ug; Detection:13389-1-AP 1:4000) with Jurkat cells lysate 2280 ug.



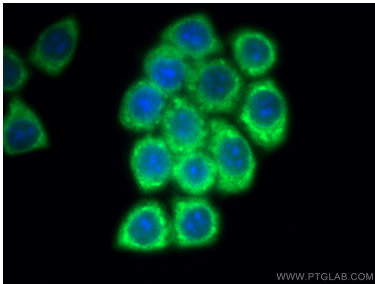
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13389-1-AP (PFKP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13389-1-AP (PFKP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PFKP antibody (13389-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed BxPC-3 cells using PFKP antibody (13389-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).