

# PFKM Polyclonal antibody

Catalog Number: 55028-1-AP

Featured Product

53 Publications

## Basic Information

## Catalog Number:

55028-1-AP

## Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

## Source:

Rabbit

## Isotype:

IgG

## GenBank Accession Number:

NM\_000289

## GeneID (NCBI):

5213

## UNIPROT ID:

P08237

## Full Name:

phosphofructokinase, muscle

## Calculated MW:

85 kDa

## Observed MW:

75-85 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:400-1:1600

IF 1:10-1:100

## Applications

## Tested Applications:

IF, IHC, IP, WB, ELISA

## Cited Applications:

IF, IHC, IP, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, chicken, rat, mouse, pig, bovine

**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**: HeLa cells, human skeletal muscle tissue, HepG2 cells, human brain tissue, HEK-293 cells, mouse heart tissue, rat heart tissue

**IP**: mouse heart tissue, mouse liver tissue

**IHC**: mouse skeletal muscle tissue, human skeletal muscle tissue

**IF**: HeLa cells,

## Background Information

PFKM, also named as GSD7, PFK-1, PFK-M and PFKX, belongs to the phosphofructokinase family and Two domains subfamily. PFKM catalyze the reaction: ATP + D-fructose 6-phosphate = ADP + D-fructose 1,6-bisphosphate. It is a key regulatory enzyme in glycolysis. Defects in PFKM are the cause of glycogen storage disease type 7 (GSD7). PFKM has three isoforms with molecular mass of 85, 82 and 93 kDa. The antibody is specific to PFKM.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wei Xu	32935679	Food Funct	WB
Yanling Gou	36069580	Immunology	IHC
Yu Zhu	36052731	ACS Appl Mater Interfaces	WB

## Storage

## Storage:

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

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

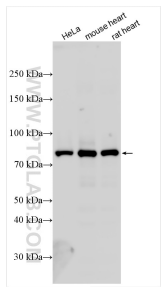
For technical support and original validation data for this product please contact:

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

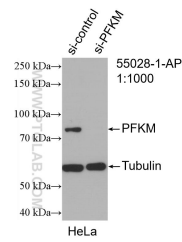
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

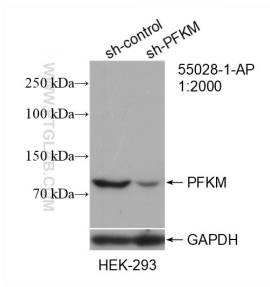
Selected Validation Data



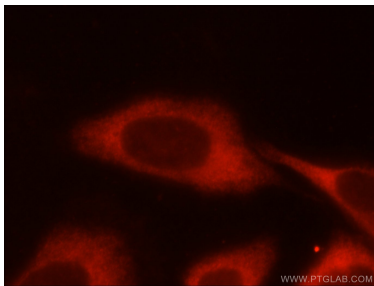
Various lysates were subjected to SDS PAGE followed by western blot with 55028-1-AP (PFKM antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



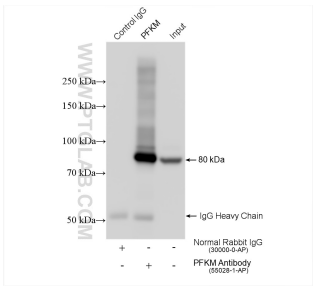
WB result of PFKM antibody (55028-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKM transfected HeLa cells.



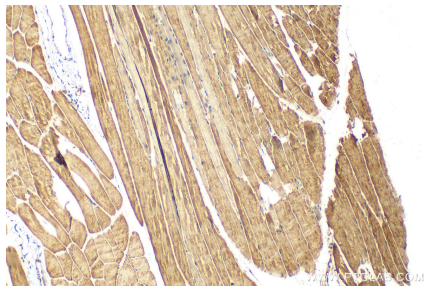
WB result of PFKM antibody (55028-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKM transfected HEK-293 cells.



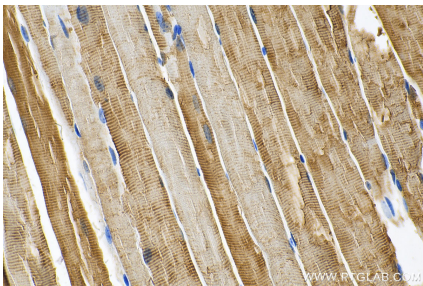
Immunofluorescent analysis of HeLa cells using 55028-1-AP (PFKM antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP result of anti-PFKM (IP:55028-1-AP, 4ug; Detection:55028-1-AP 1:8000) with mouse heart tissue lysate 1680 ug.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 55028-1-AP (PFKM antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 55028-1-AP (PFKM antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).