

For Research Use Only

# PFKM Polyclonal antibody

Catalog Number: 55028-1-AP

Featured Product

59 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:**

WB, IP, IF, IHC, ELISA

**Cited Applications:**

WB, IP, IF, IHC

**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

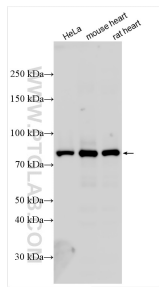
For technical support and original validation data for this product please contact:

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

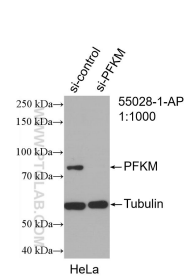
E: proteintech@ptglab.com  
W: ptglab.com

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

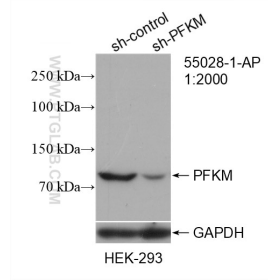
## Selected Validation Data



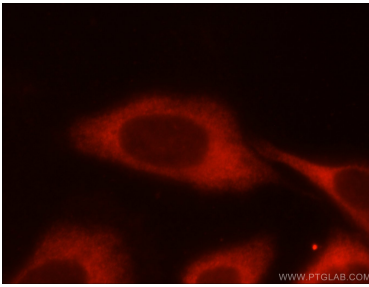
Various lysates were subjected to SDS PAGE followed by western blot with 55028-1-AP (PFKM antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



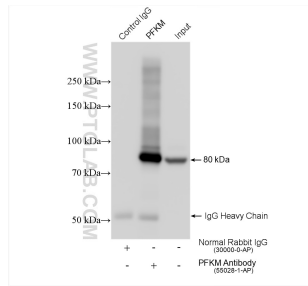
WB result of PFKM antibody (55028-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKM transfected HeLa cells.



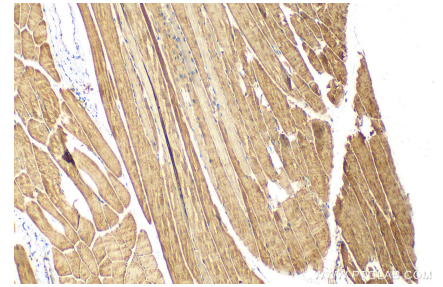
WB result of PFKM antibody (55028-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKM transfected HEK-293 cells.



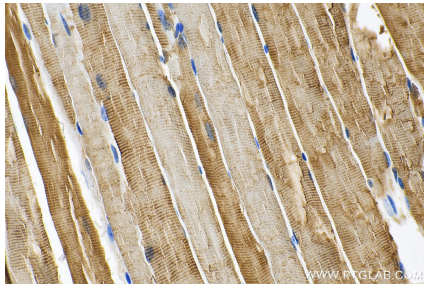
Immunofluorescent analysis of HeLa cells using 55028-1-AP (PFKM antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



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).