

For Research Use Only

# PKM Polyclonal antibody

Catalog Number: 10078-2-AP

Featured Product

8 Publications



## Basic Information

<b>Catalog Number:</b> 10078-2-AP	<b>GenBank Accession Number:</b> BC000481	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 300 µg/ml by Nanodrop and 140 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5315	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:250-1:1000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> PKM pyruvate kinase, muscle	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 58 kDa	
<b>Immunogen Catalog Number:</b> AG0110	<b>Observed MW:</b> 58 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, swine

**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, multi-cells/tissue, HepG2 cells, SH-SY5Y cells, Jurkat cells, MCF-7 cells, SKOV-3 cells, NIH/3T3 cells, HEK-293 cells, Raji cells, mouse brain tissue, mouse muscle tissue, mouse heart tissue

**IHC:** human colon cancer tissue,

**IF:** HeLa cells,

## Background Information

PKM, also named as OIP3, PK2, PK3, PKM1/2, p58, THBP1, CTHBP and Tumor M2-PK, belongs to the pyruvate kinase family. It is glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. It stimulates POU5F1-mediated transcriptional activation. PKM plays a general role in caspase independent cell death of tumor cells. PKM has 2 isoforms named as PKM1/M2. The activity of the M2 isoform can be inhibited by tyrosine kinase signalling in tumour cells. The primary pyruvate kinase isoform before tumour development is PKM1; however, the primary isoform from four independent tumours is PKM2.(PMID:18337823). This antibody can recognize both PKM1 and PKM2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liangliang Fu	28345649	Sci Rep	WB
Yang Yang	31211620	Am J Physiol Endocrinol Metab	WB
Yu Yanyan Y	23752568	Analyst	

## 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

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)

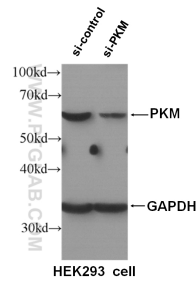
E: proteintech@ptglab.com  
W: ptglab.com

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

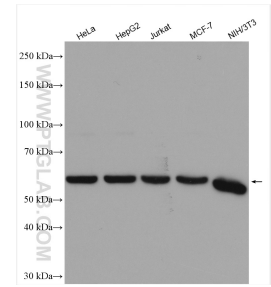
## Selected Validation Data



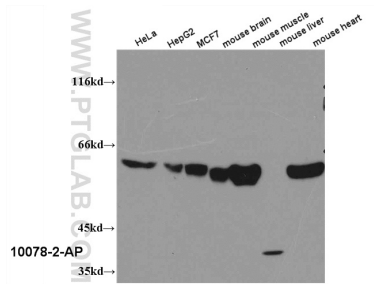
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10078-2-AP (PKM antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



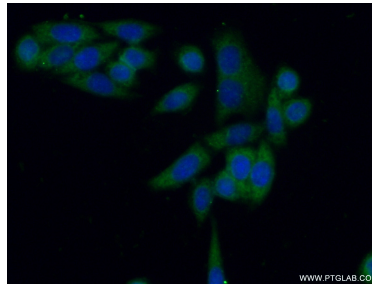
WB result of PKM antibody (10078-2-AP, 1:1000) with si-Control and si-PKM transfected HEK293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10078-2-AP (PKM antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of 10078-2-AP (PKM antibody) with various lysates.



Immunofluorescent analysis of (-20 Ethanol) fixed HeLa cells using 10078-2-AP (PKM antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).