#### For Research Use Only

# PKM1-specific Polyclonal antibody

Catalog Number: 15821-1-AP

Featured Product

86 Publications



**Basic Information** 

Catalog Number:

15821-1-AP

GenBank Accession Number:

NM 182470 GeneID (NCBI):

150ul , Concentration: 450 ug/ml by

Nanodrop: **UNIPROT ID:** Source: P14618 Rabbit

Isotype: PKM pyruvate kinase, muscle

IgG Calculated MW:

58 kDa Observed MW: 58 kDa

Full Name:

**Purification Method:** 

Antigen affinity purification

Recommended Dilutions: WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:50-1:500

**Applications** 

**Tested Applications:** 

WB, IHC, IP, ELISA **Cited Applications:** WB, IHC, IF, IP, CoIP Species Specificity: human, mouse, rat **Cited Species:** 

human, mouse, rat, monkey, 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: mouse brain tissue, mouse skeletal muscle tissue, multi-cells/tissue, mouse muscle/liver tissues, mouse heart tissue, 293 cell, HepG2/MCF7 cells, mouse colon tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human gliomas tissue, human skeletal muscle tissue, human brain tissue, human heart tissue, mouse heart tissue

## **Background Information**

PKM, also named as OIP3, PK2, PK3, PKM, 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 PKM1 and PKM2. The primary pyruvate kinase isoform before tumour development is PK-M1; however, the primary isoform from four independent tumours is PK-M2 (PMID:18337823). This antibody is specific to PKM1 isoform.

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Stefano Miglietta	36287116	Noncoding RNA	WB
Во Ма	30235220	PLoS One	WB
Di Huang	30224822	Nat Immunol	

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

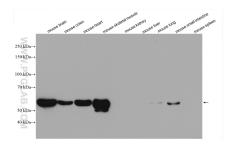
For technical support and original validation data for this product please contact:

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

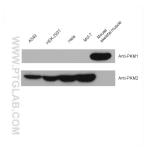
E: proteintech@ptglab.com W: ptglab.com

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

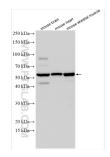
### Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15821-1-AP (PKM1-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



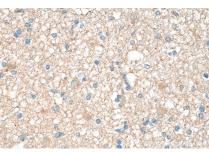
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 15821-1-AP (PKM1-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



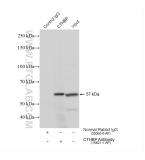
Various lysates were subjected to SDS PAGE followed by western blot with 15821-1-AP (PKM1-specific antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



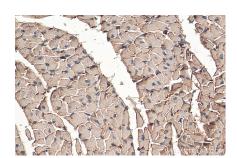
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 15821-1-AP (PKM1-specific antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 15821-1-AP (PKM1-specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PKM1-specific (IP:15821-1-AP, 4ug; Detection:15821-1-AP 1:40000) with mouse brain tissue lysate 1680 ug.



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 15821-1-AP (PKM1-specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).