

For Research Use Only

PKM Polyclonal antibody

Catalog Number: 25659-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:

25659-1-AP

Size:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20270

GenBank Accession Number:

BC000481

GeneID (NCBI):

5315

UNIPROT ID:

P14618

Full Name:

PKM pyruvate kinase, muscle

Calculated MW:

58 kDa

Observed MW:

58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:100-1:400

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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, HEK-293 cells, MCF-7 cells, COLO 320 cells, SMMC-7721 cells, KEK293 cells, mouse skeletal muscle tissue, rat skeletal muscle tissue, NIH/3T3 cells, mouse brain tissue, mouse heart tissue, rat brain tissue, rat heart tissue

IHC: human liver cancer tissue, human normal colon

IF/ICC: HeLa cells,

Background Information

PKM, also named as OIP3, PK2, PK3, PK-M1/2, 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 (but not the M1 isoform) can be inhibited by tyrosine kinase signalling in tumour cells. 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 can recognize both PK-M1 and PK-M2.

Notable Publications

Author	Pubmed ID	Journal	Application
Guang Yang	33372411	EMBO Rep	WB,IP
Haojun Tang	39394598	Cell Commun Signal	WB
Xiang Ma	39428563	CNS Neurosci Ther	CoIP

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:

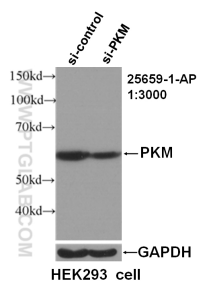
T: 4006900926

E: Proteintech-CN@ptglab.com

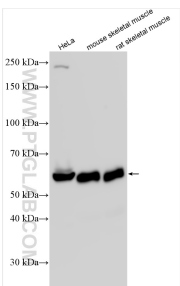
W: ptgcn.com

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

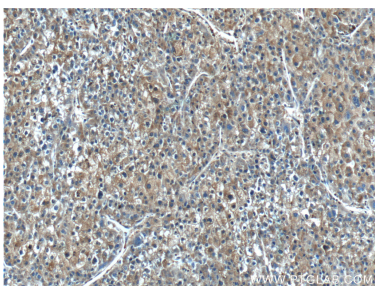
Selected Validation Data



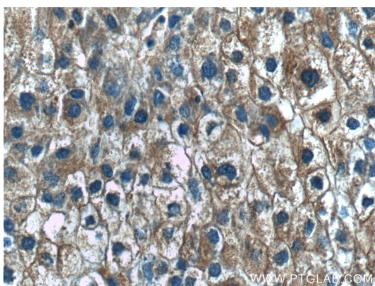
WB result of PKM antibody (25659-1-AP, 1:3000) with si-control and si-PKM transfected HEK293 cell.



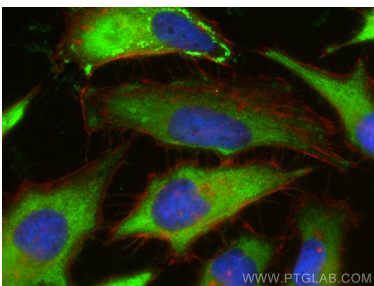
Various lysates were subjected to SDS PAGE followed by western blot with 25659-1-AP (PKM antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



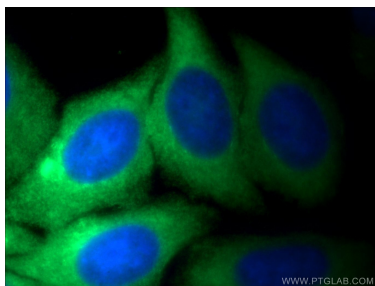
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 25659-1-AP (PKM Antibody) at dilution of 1:200 (under 10x lens).



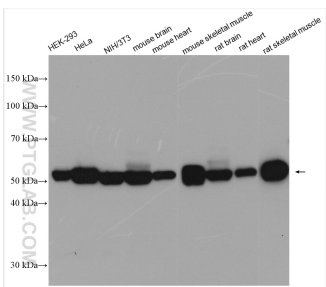
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 25659-1-AP (PKM Antibody) at dilution of 1:200 (under 40x lens).



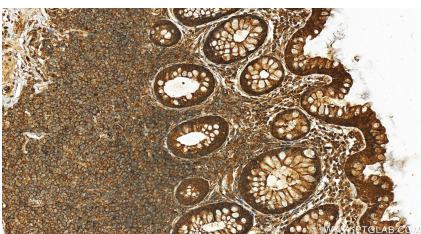
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PKM antibody (25659-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of HeLa cells using 25659-1-AP (PKM antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 25659-1-AP (PKM antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 25659-1-AP (PKM antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).