For Research Use Only

PKM Polyclonal antibody

Catalog Number:25659-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
25659-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

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 tumourcells. 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

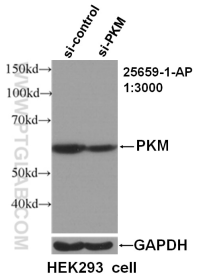
Storage

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

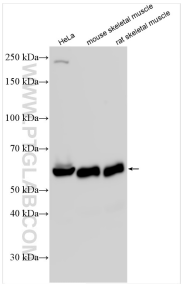
*** 20ul sizes contain 0.1% BSA

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

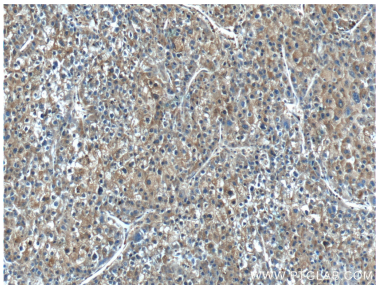
Selected Validation Data



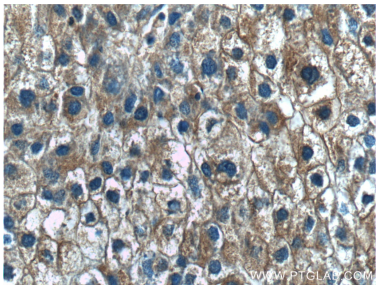
WB result of PKM antibody (25659-1-AP, 1:3000) with si-control and si-PKM transfected HEK293 cell.



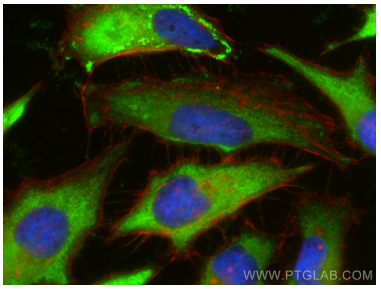
Various lysates were subjected to SDS PAGE followed by western blot with 25659-1-AP (PKM antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



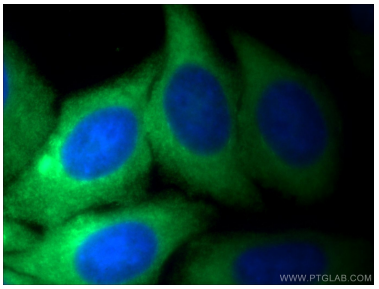
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 25659-1-AP (PKM Antibody) at dilution of 1:200 (under 10x lens).



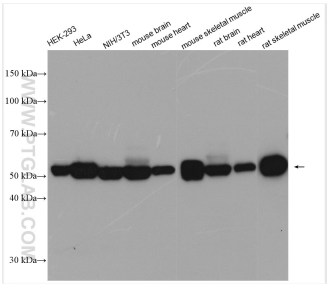
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 25659-1-AP (PKM Antibody) at dilution of 1:200 (under 40x lens).



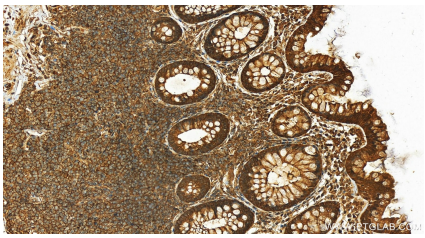
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PKM antibody (25659-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



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).