For Research Use Only

## PKM Polyclonal antibody Catalog Number: 10078-2-AP Featured Product

Featured Product

28 Publications



Basic Information	Catalog Number: 10078-2-AP	GenBank Accession Number: BC000481		Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dil	
	150ul , Concentration: 300 ug/ml by	5315		WB 1:1000-1:4000	
	Nanodrop and 140 ug/ml by Bradford method using BSA as the standard;	UNIPROT ID: P14618		IHC 1:250-1:1000 IF/ICC 1:200-1:800	)
	Source:	Full Name:			
	Rabbit	PKM pyruvate kinase,	muscle		
	Isotype: IgG	Calculated MW: 58 kDa			
	Immunogen Catalog Number: AG0110	Observed MW: 58 kDa			
Applications	Tested Applications:		Positive Contr	ols:	
			WB: HeLa cells	La cells, multi-cells/tissue, Raji cells, SH-SY5Y Jrkat cells, MCF-7 cells, SKOV-3 cells, NIH/3T3 epG2 cells, HEK-293 cells, rat skeletal muscle mouse brain tissue, mouse muscle tissue, heart tissue	
	Cited Applications: WB, IHC, IF, IP				
	Species Specificity: human, mouse, rat	tissue, mouse mouse heart ti			
	Cited Species:		IHC : human co	olon cancer tissue,	
	human, mouse, rat, pig		IF/ICC : HeLa ce		
	Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
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 tumourcells. 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 Pub	omed ID Journ	al		Application
Notable Publications					
Notable Publications	Li-Jun Wen 349	156471 Am ]	Transl Res		
Notable Publications			Transl Res		WB,IHC
Notable Publications	Liangliang Fu 283	345649 Sci Re		nol Metab	
Notable Publications	Liangliang Fu 283	545649 Sci Re	p	nol Metab	WB,IHC WB
Storage	Liangliang Fu 283	545649 Sci Re 211620 Am J er shipment.	p	iol Metab	WB,IHC WB
Storage	Liangliang Fu 283 Yang Yang 312 Storage: Store at -20°C. Stable for one year after Storage Buffer:	545649 Sci Re 211620 Am J er shipment. % glycerol pH 7.3.	p	iol Metab	WB,IHC WB
	Liangliang Fu 283 Yang Yang 312 Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°	545649 Sci Re 211620 Am J er shipment. % glycerol pH 7.3.	p	nol Metab	WB,IHC WB

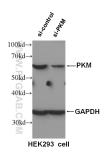
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

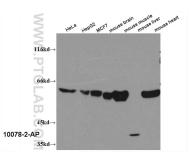
## Selected Validation Data



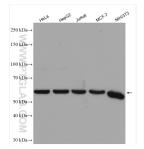
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 10078-2-AP (PKM antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



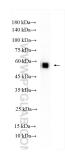
WB result of PKM antibody (10078-2-AP, 1:1000) with si-Control and si-PKM transfected HEK293 cells.



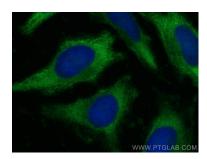
WB result of 10078-2-AP (PKM antibody) with various lysates.



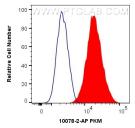
Various lysates were subjected to SDS PAGE followed by western blot with 10078-2-AP (PKM antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



rat skeletal muscle tissue 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.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PKM antibody (10078-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human PKM (10078-2-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).