

For Research Use Only

PPM1K Polyclonal antibody

Catalog Number: 14573-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number: 14573-1-AP	GenBank Accession Number: BC037552	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop and 620 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 152926	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q8N3J5	
Isotype: IgG	Full Name: protein phosphatase 1K (PP2C domain containing)	
Immunogen Catalog Number: AG5660	Calculated MW: 41 kDa	
	Observed MW: 30-40 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : human brain tissue, human heart tissue IHC : human gliomas tissue,
Cited Applications: WB, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Protein phosphatase, Mg²⁺/Mn²⁺ dependent 1K (PPM1K), is a member of the PPM family of Mn²⁺/Mg²⁺-dependent protein phosphatases. PPM1K, essential for cell survival and development, is targeted to the mitochondria where it plays a key role in regulation of the mitochondrial permeability transition pore. PPM1K is essential for the regulation and nutrient-induced activation of the branched-chain alpha-keto acid dehydrogenase complex (BCKD or BCKDC), which catalyzes the breakdown of branched-chain amino acids (BCAA).

Notable Publications

Author	Pubmed ID	Journal	Application
Yang Yang	34084135	Front Pharmacol	WB
Dan Shao	30050148	Nat Commun	WB,IF
Shuyun Liu	34474107	Free Radic Biol Med	WB

Storage

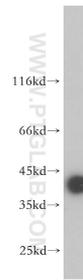
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

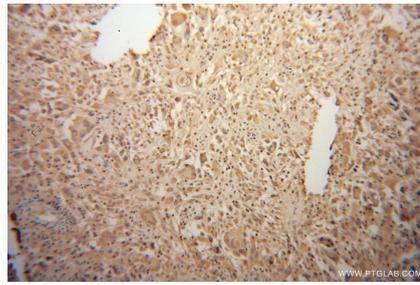
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

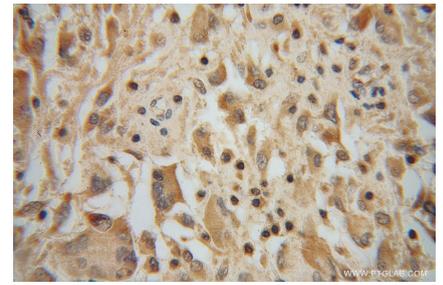
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 14573-1-AP (PPM1K antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas using 14573-1-AP (PPM1K antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas using 14573-1-AP (PPM1K antibody) at dilution of 1:50 (under 40x lens).