

For Research Use Only

# PPM1K Polyclonal antibody

Catalog Number: 14573-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

14573-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5660

**GenBank Accession Number:**

BC037552

**GeneID (NCBI):**

152926

**UNIPROT ID:**

Q8N3J5

**Full Name:**

protein phosphatase 1K (PP2C domain containing)

**Calculated MW:**

41 kDa

**Observed MW:**

30-40 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**Positive Controls:**

WB : human brain tissue, human heart tissue

IHC : human gliomas tissue,

**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, Mg<sup>2+</sup>/Mn<sup>2+</sup> dependent 1K (PPM1K), is a member of the PPM family of Mn<sup>2+</sup>/Mg<sup>2+</sup>-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

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

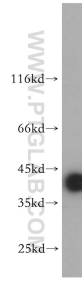
T: 4006900926

E: Proteintech-CN@ptglab.com

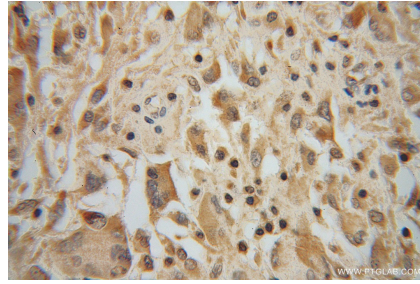
W: ptgcn.com

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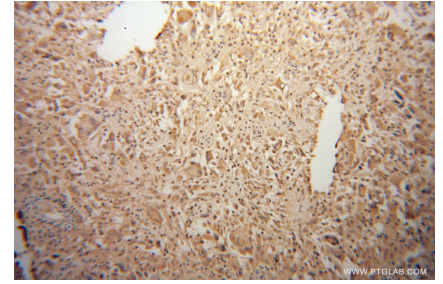
## Selected Validation Data



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 40x lens).



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