For Research Use Only

MARK1 Polyclonal antibody

Catalog Number: 21552-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number: GenBank Accession Number: BC113869

21552-1-AP GeneID (NCBI): Size:

150ul , Concentration: 700 ug/ml by Nanodrop and 360 ug/ml by Bradford $\,$ UNIPROT ID:

method using BSA as the standard; Q9P0L2

Source: Full Name: Rabbit

MAP/microtubule affinity-regulating

Isotype: kinase 1

Calculated MW: Immunogen Catalog Number: 795 aa. 89 kDa AG16225 Observed MW:

85-89 kDa, 72 kDa

Applications

Tested Applications: WB, IHC, IP, ELISA

Cited Applications:

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

Antigen affinity purification Recommended Dilutions:

WB 1:1000-1:6000

Purification Method:

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate

IHC 1:50-1:500

Positive Controls:

WB: mouse brain tissue, HeLa cells, SH-SY5Y cells,

mouse kidney tissue, rat brain tissue

IP: mouse brain tissue, IHC : rat testis tissue,

Background Information

MARK1, also named as MAP-microtubule affinity regulating kinase 1, which form a subfamily of the $calcium/calmodulin-dependent\ protein\ kinase\ (CAMP)\ group\ of\ kinases\ (PMID:\ 22670221).\ It\ is\ involved\ in\ cell$ polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. MARK1 also act as a regulator of the neuronal migration and Wnt signaling pathway. It has 3 isoforms which molecular weight is 89,84,72 kDa. This antibody may detect all of the isoforms.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------------|-----------|--------------|-------------|
| Tsz-Yin Chan | 34504101 | Nat Commun | IP |
| Vickie Kwan | 27829159 | Cell Rep | WB |
| Victoria L DiBona | 34023358 | Neurosci Res | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

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

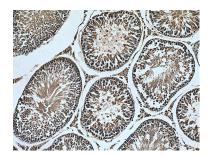
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free

in USA), or 1(312) 455-8498 (outside USA)

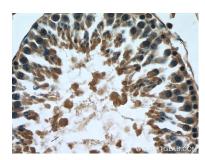
E: proteintech@ptglab.com W: ptglab.com

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

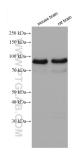
Selected Validation Data



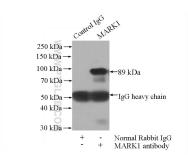
Immunohistochemical analysis of paraffinembedded rat testis tissue slide using 21552-1-AP (MARK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat testis tissue slide using 21552-1-AP (MARK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 21552-1-AP (MARK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-MARK1 (IP:21552-1-AP, 4ug; Detection:21552-1-AP 1:1000) with mouse brain tissue lysate 3440ug.