

For Research Use Only

MARK1 Polyclonal antibody

Catalog Number: 21552-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

21552-1-AP

Size:

700 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16225

GenBank Accession Number:

BC113869

GeneID (NCBI):

4139

UNIPROT ID:

Q9POL2

Full Name:

MAP/microtubule affinity-regulating kinase 1

Calculated MW:

795 aa, 89 kDa

Observed MW:

85-89 kDa, 72 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IP

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

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.

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:

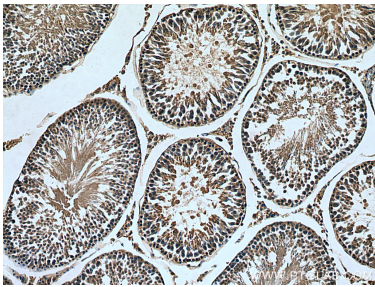
T: 4006900926

E: Proteintech-CN@ptglab.com

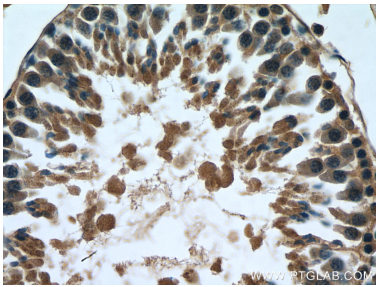
W: ptgcn.com

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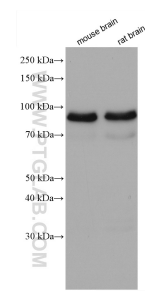
Selected Validation Data



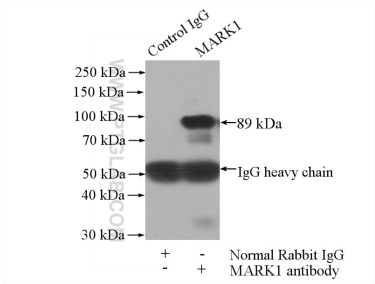
Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 21552-1-AP (MARK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded 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.