

Product datasheet for **AP13782PU-N**

MARK1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/1000. Immunohistochemistry: 1/10 - 1/50.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-40 amino acids selected from the N-terminal region of human MARK1.
Specificity:	This antibody reacts to MARK1.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	microtubule affinity regulating kinase 1
Database Link:	Entrez Gene 4139 Human Q9P0L2



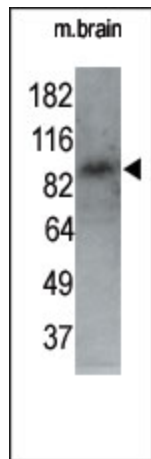
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Background:

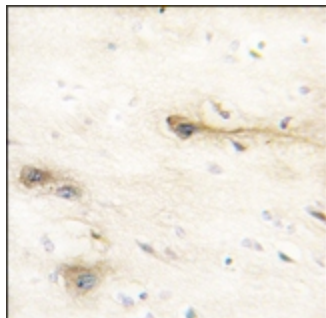
MARK is a family of kinases that is known for its involvement in establishing cell polarity and in phosphorylating tau protein during Alzheimer neurodegeneration. Expression of MARK causes the phosphorylation of MAPs at their KXGS motifs, thereby detaching MAPs from the microtubules and thus facilitating the transport of particles. This occurs without impairing the intrinsic activity of motors because the velocity during active movement remains unchanged. In primary retinal ganglion cells, transfection with tau leads to the inhibition of axonal transport of mitochondria, APP vesicles, and other cell components which leads to starvation of axons and vulnerability against stress. This transport inhibition can be rescued by phosphorylating tau with MARK

Synonyms:

Serine/threonine-protein kinase MARK1, MARK, MAP/Microtubule Affinity-Regulating Kinase 1

Product images:

The anti-MARK1 N-term Pab is used in Western blot to detect MARK1 in P7 mouse whole brain lysate (60 ug). 1:250 dilution of anti-MARK1 pab was used.



Formalin-fixed and paraffin-embedded human brain tissue reacted with MARK1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.