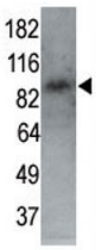
MARK1 Antibody (F40144)

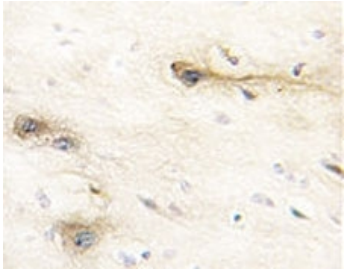
Catalog No.	Formulation	Size
F40144-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40144-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q9P0L2
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This MARK1 antibody is available for research use only.



MARK1 antibody used in western blot to detect MARK1 in P7 mouse whole brain lysate (60 ug) at 1:250. Courtesy of Dr Shengli Zhao, Duke University Medical Center.



IHC analysis of FFPE human brain tissue stained with MARK1 antibody

Description

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

Application Notes

Titration of the MARK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 6-40 from the human protein was used as the immunogen for this MARK1 antibody.

Storage

Aliquot the MARK1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.