Datasheet for ABIN3031687

anti-MARK1 antibody (AA 6-40)

3 Images

Go to Product page

Overview

Quantity:	0.4 mL
Target:	MARK1
Binding Specificity:	AA 6-40
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MARK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	A portion of amino acids 6-40 from the human protein was used as the immunogen for this MARK1 antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	MARK1
Alternative Name:	MARK1 (MARK1 Products)
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

Target Details

	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
UniProt:	Q9P0L2
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

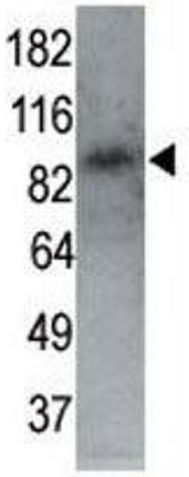
Application Notes:	Titration of the MARK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	In 1X PBS pH 7.4 with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the MARK1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

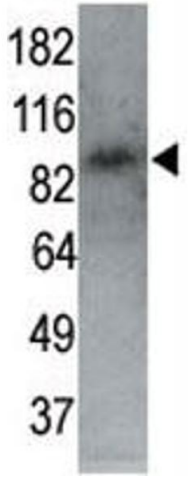
Immunohistochemistry

Image 1. IHC analysis of FFPE human brain tissue stained with MARK1 antibody



Western Blotting

Image 2. 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.



Western Blotting

Image 3. 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.