

MARK1/2/3/4 Polyclonal Antibody

Catalog # AP70833

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q9P0L2 , Q7KZ17 , P27448 , Q96L34
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	89003

Additional Information

Gene ID	4139
Other Names	MARK1; KIAA1477; MARK; Serine/threonine-protein kinase MARK1; MAP/microtubule affinity-regulating kinase 1; PAR1 homolog c; Par-1c; Par1c; MARK2; EMK1; Serine/threonine-protein kinase MARK2; ELKL motif kinase 1; EMK-1; MAP/microtubule affin
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

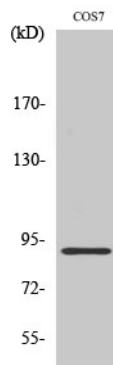
Name	MARK1 (HGNC:6896)
Function	Serine/threonine-protein kinase (PubMed: 23666762). Involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed: 23666762). Involved in cell polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. Involved in the regulation of neuronal migration through its dual activities in regulating cellular polarity and microtubule dynamics, possibly by phosphorylating and regulating DCX. Also acts as a positive regulator of the Wnt signaling pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or DVL3).
Cellular Location	Cell membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton. Cytoplasm Cell projection, dendrite. Note=Appears to localize to an

intracellular network.

Tissue Location

Highly expressed in heart, skeletal muscle, brain, fetal brain and fetal kidney.

Images



Western Blot analysis of various cells using MARK1/2/3/4 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.