

MARK1 / MARK Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11113**Specification****MARK1 / MARK Antibody (N-Terminus) - Product Information**

| | |
|-------------------|------------------------------------|
| Application | IHC |
| Primary Accession | Q9P0L2 |
| Reactivity | Human, Rabbit, Monkey, Bovine, Dog |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 89kDa KDa |

MARK1 / MARK Antibody (N-Terminus) - Additional Information**Gene ID** 4139**Other Names**

Serine/threonine-protein kinase MARK1, 2.7.11.1, 2.7.11.26, MAP/microtubule affinity-regulating kinase 1, PAR1 homolog c, Par-1c, Par1c, MARK1 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6896)
HGNC:6896

Target/Specificity

Human MARK1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions

MARK1 / MARK Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

MARK1 / MARK Antibody (N-Terminus) - Protein Information**Name** MARK1 ([HGNC:6896](#))**Function**

Serine/threonine-protein kinase (PubMed:<http://www.uniprot.org/citations/23666762>). Involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed:<http://www.uniprot.org/citations/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.

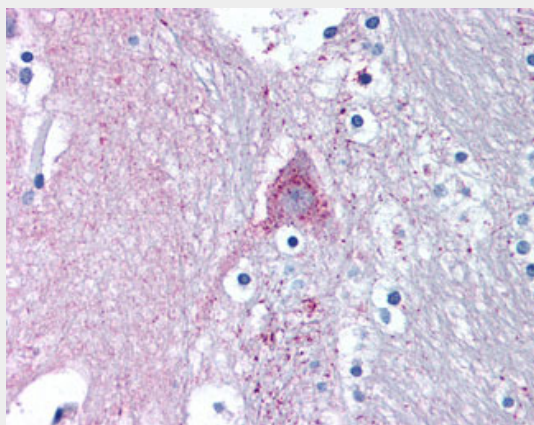
Volume

50 µl

MARK1 / MARK Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MARK1 / MARK Antibody (N-Terminus) - Images

Anti-MARK1 antibody ALS11113 IHC of human brain, caduate.

MARK1 / MARK Antibody (N-Terminus) - Background

Serine/threonine-protein kinase involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2, MAP4 and MAPT/TAU. 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).

MARK1 / MARK Antibody (N-Terminus) - References

Lizcano J.M.,et al.EMBO J. 23:833-843(2004).
Zhou H.J.,et al.Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
Nagase T.,et al.DNA Res. 7:143-150(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).