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Mouse Mark1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14269B

Specification

Mouse Mark1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q8VHJ5
Other Accession	O08678, NP_663490.2
Reactivity	**Human, Mouse**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**88335**
Antigen Region	**600-627**

Mouse Mark1 Antibody (C-term) - Additional Information

Gene ID 226778

Other Names
Serine/threonine-protein kinase MARK1, ELKL motif serine/threonine-protein kinase 3, MAP/microtubule affinity-regulating kinase 1, PAR1 homolog c, Par-1c, mPar-1c, Mark1 {ECO:0000312|MGI:MGI:2664902}

Target/Specificity
This Mouse Mark1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 600-627 amino acids from the C-terminal region of mouse Mark1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Mark1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Mark1 Antibody (C-term) - Protein Information

Name Mark1 {ECO:0000312|MGI:MGI:2664902}

Function Serine/threonine-protein kinase (By similarity). Involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (By similarity). 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).

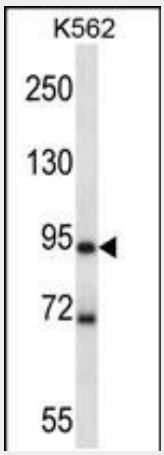
Cellular Location
Cell membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton. Cytoplasm {ECO:0000250|UniProtKB:Q9P0L2}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q9P0L2}. Note=Appears to localize to an intracellular network.

Mouse Mark1 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Mark1 Antibody (C-term) - Images



Mouse Mark1 Antibody (C-term) (Cat. #AP14269b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the Mark1 antibody detected the Mark1 protein (arrow).

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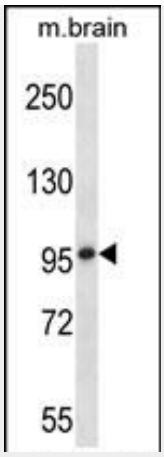

Mouse Mark1 Antibody (C-term) (Cat. #AP14269b) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the Mark1 antibody detected the Mark1 protein (arrow).

Mouse Mark1 Antibody (C-term) - Background

Mark1 may play a role in cytoskeletal stability (By similarity).

Mouse Mark1 Antibody (C-term) - References

Maussion, G., et al. Hum. Mol. Genet. 17(16):2541-2551(2008)
Hezel, A.F., et al. Mol. Cell. Biol. 28(7):2414-2425(2008)
Trinidad, J.C., et al. Mol. Cell Proteomics 5(5):914-922(2006)
Kerns, R.T., et al. J. Neurosci. 25(9):2255-2266(2005)
Okazaki, N., et al. DNA Res. 11(3):205-218(2004)