10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Cask Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14818a

Specification

Mouse Cask Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O70589

Mouse Cask Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 12361

Other Names
Peripheral plasma membrane protein CASK, Calcium/calmodulin-dependent serine protein kinase, Cask

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Cask Antibody (N-term) Blocking Peptide - Protein Information

Name Cask {ECO:0000312|MGI:MGI:1309489}

Function
Multidomain scaffolding Mg(2+)-independent protein kinase that catalyzes the phosphotransfer from ATP to proteins such as NRXN1, and plays a role in synaptic transmembrane protein anchoring and ion channel trafficking (By similarity). Contributes to neural development and regulation of gene expression via interaction with the transcription factor TBR1. Binds to cell-surface proteins, including amyloid precursor protein, neurexins, and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1. Component of the LIN-10-LIN-2-LIN-7 complex, which associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules (PubMed:10846156).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q62915}. Cytoplasm {ECO:0000250|UniProtKB:Q62915}. Cell membrane {ECO:0000250|UniProtKB:Q62915}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q62915}

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Mouse Cask Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Mouse Cask Antibody (N-term) Blocking Peptide - Images

Mouse Cask Antibody (N-term) Blocking Peptide - Background

Multidomain scaffolding protein with a role in synaptic transmembrane protein anchoring and ion channel trafficking. Contributes to neural development and regulation of gene expression via interaction with the transcription factor TRB1. Binds to cell-surface proteins, including amyloid precursor protein, neurexins, and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1.

Mouse Cask Antibody (N-term) Blocking Peptide - References

Sun, Q., et al. Int. J. Biochem. Cell Biol. 42(1):90-97(2010)Lozovatsky, L., et al. Mol. Biol. Cell 20(21):4489-4499(2009)Hsueh, Y.P. Ann. Neurol. 66(4):438-443(2009)Giangreco, A., et al. Development 136(20):3505-3514(2009)Kalsotra, A., et al. Proc. Natl. Acad. Sci. U.S.A. 105(51):20333-20338(2008)