

Mouse Csnk1a1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14783b**Specification**

Mouse Csnk1a1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8BK63](#)**Mouse Csnk1a1 Antibody (C-term) Blocking Peptide - Additional Information****Other Names**

Casein kinase I isoform alpha, CKI-alpha, CK1, Csnk1a1

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 Csnk1a1 Antibody (C-term) Blocking Peptide - Protein Information**Name** Csnk1a1**Function**

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (By similarity). Can phosphorylate a large number of proteins (By similarity). Participates in Wnt signaling (By similarity). Phosphorylates CTNNB1 at 'Ser-45' (By similarity). May phosphorylate PER1 and PER2 (PubMed:21930935). May play a role in segregating chromosomes during mitosis (By similarity). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (By similarity). Acts as a positive regulator of mTORC1 and mTORC2 signaling in response to nutrients by mediating phosphorylation of DEPTOR inhibitor (By similarity). Acts as an inhibitor of NLRP3 inflammasome assembly by mediating phosphorylation of NLRP3 (PubMed:34615873).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P48729}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:P48729}. Chromosome, centromere, kinetochore {ECO:0000250|UniProtKB:P48729}. Nucleus speckle {ECO:0000250|UniProtKB:P48729}. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, spindle. Note=Localizes to the centrosome in interphase cells, and to kinetochore fibers during mitosis. Also recruited to the keratin cytoskeleton. {ECO:0000250|UniProtKB:P48729}

Mouse Csnk1a1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Csnk1a1 Antibody (C-term) Blocking Peptide - Images**Mouse Csnk1a1 Antibody (C-term) Blocking Peptide - Background**

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at 'Ser-45'. May play a role in segregating chromosomes during mitosis (By similarity).