

CSNK1E Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP7403a**Specification**

CSNK1E Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P49674](#)**CSNK1E Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 102800317;1454**Other Names**

Casein kinase I isoform epsilon, CKI-epsilon, CKIe, CSNK1E

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP7403a was selected from the C-term region of human CKIe . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CSNK1E Antibody (C-term) Blocking peptide - Protein Information**Name** CSNK1E**Function**

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (Probable). Participates in Wnt signaling (PubMed:12556519, PubMed:23413191). Phosphorylates DVL1 (PubMed:12556519). Phosphorylates DVL2 (PubMed:23413191). Phosphorylates NEDD9/HEF1 (By similarity). Central component of the circadian clock (PubMed:16790549). In balance with PP1, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation (PubMed:15917222, PubMed:16790549). Controls

PER1 and PER2 nuclear transport and degradation (By similarity). Inhibits cytokine-induced granulocytic differentiation (PubMed:15070676).

Cellular Location

Cytoplasm. Nucleus.

Tissue Location

Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle Expressed in monocytes and lymphocytes but not in granulocytes

CSNK1E Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CSNK1E Antibody (C-term) Blocking peptide - Images**CSNK1E Antibody (C-term) Blocking peptide - Background**

CK1e is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. This protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. It has been shown to phosphorylate period, a circadian rhythm protein.

CSNK1E Antibody (C-term) Blocking peptide - References

Hino, S., et al., J. Biol. Chem. 278(16):14066-14073 (2003). Eide, E.J., et al., J. Biol. Chem. 277(19):17248-17254 (2002). Keesler, G.A., et al., Neuroreport 11(5):951-955 (2000). Cegielska, A., et al., J. Biol. Chem. 273(3):1357-1364 (1998). Kloss, B., et al., Cell 94(1):97-107 (1998).