

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

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**CSNK1E Antibody (C-term) Blocking peptide - Product Information**Primary 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:<a href="http://www.uniprot.org/citations/12556519" target="\_blank">12556519</a>, PubMed:<a href="http://www.uniprot.org/citations/23413191" target="\_blank">23413191</a>). Phosphorylates DVL1 (PubMed:<a href="http://www.uniprot.org/citations/12556519" target="\_blank">12556519</a>). Phosphorylates DVL2 (PubMed:<a href="http://www.uniprot.org/citations/23413191" target="\_blank">23413191</a>). Phosphorylates NEDD9/HEF1 (By similarity). Central component of the circadian clock (PubMed:<a href="http://www.uniprot.org/citations/16790549" target="\_blank">16790549</a>). In balance with PP1, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation (PubMed:<a href="http://www.uniprot.org/citations/15917222" target="\_blank">15917222</a>, PubMed:<a href="http://www.uniprot.org/citations/16790549" target="\_blank">16790549</a>). Controls

PER1 and PER2 nuclear transport and degradation (By similarity). Inhibits cytokine-induced granulocytic differentiation (PubMed:<a href="http://www.uniprot.org/citations/15070676" target="\_blank">15070676</a>).

**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).