

**Goat Anti-CSNK1E Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1282a****Specification**

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**Goat Anti-CSNK1E Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P49674</a>
Other Accession	<a href="#">NP_689407</a> , <a href="#">1454</a> , <a href="#">27373 (mouse)</a> , <a href="#">58822 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	47315

**Goat Anti-CSNK1E Antibody - Additional Information****Gene ID** 1454**Other Names**

Casein kinase I isoform epsilon, CKI-epsilon, CKIe, 2.7.11.1, CSNK1E

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-CSNK1E Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-CSNK1E Antibody - 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:&lt;a

[12556519](http://www.uniprot.org/citations/12556519), PubMed: [23413191](http://www.uniprot.org/citations/23413191)).  
Phosphorylates DVL1 (PubMed: [12556519](http://www.uniprot.org/citations/12556519)). Phosphorylates DVL2 (PubMed: [23413191](http://www.uniprot.org/citations/23413191)).  
Phosphorylates NEDD9/HEF1 (By similarity). Central component of the circadian clock (PubMed: [16790549](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/15917222), PubMed: [16790549](http://www.uniprot.org/citations/16790549)). Controls PER1 and PER2 nuclear transport and degradation (By similarity). Inhibits cytokine-induced granulocytic differentiation (PubMed: [15070676](http://www.uniprot.org/citations/15070676)).

### Cellular Location

Cytoplasm. Nucleus.

### Tissue Location

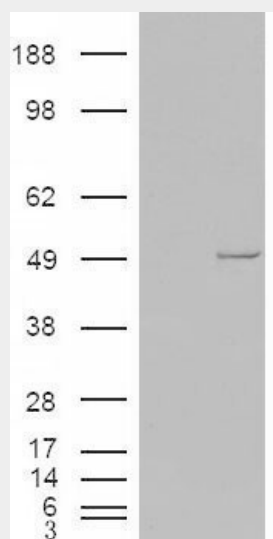
Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle Expressed in monocytes and lymphocytes but not in granulocytes

## Goat Anti-CSNK1E Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Goat Anti-CSNK1E Antibody - Images



HEK293 overexpressing CSNK1E (RC202436) and probed with AF1282a (mock transfection in first lane), tested by Origene.

### **Goat Anti-CSNK1E Antibody - Background**

The protein encoded by this gene 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. The encoded protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. This protein has been shown to phosphorylate period, a circadian rhythm protein. Two transcript variants encoding the same protein have been found for this gene.

### **Goat Anti-CSNK1E Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Centrosome-related genes, genetic variation, and risk of breast cancer. Olson JE, et al. Breast Cancer Res Treat, 2010 May 28. PMID 20508983.

Systematic analysis of circadian genes in a population-based sample reveals association of TIMELESS with depression and sleep disturbance. Utge SJ, et al. PLoS One, 2010 Feb 18. PMID 20174623.

Differential association of circadian genes with mood disorders: CRY1 and NPAS2 are associated with unipolar major depression and CLOCK and VIP with bipolar disorder. Soria V, et al.

Neuropsychopharmacology, 2010 May. PMID 20072116.

A coordinated phosphorylation by Lats and CK1 regulates YAP stability through SCF(beta-TRCP). Zhao B, et al. Genes Dev, 2010 Jan 1. PMID 20048001.