

Product datasheet for **TA340032**

CK1 epsilon (CSNK1E) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CSNK1E antibody: synthetic peptide directed towards the N terminal of human CSNK1E. Synthetic peptide located within the following region: MELRVGNKYRLGRKIGSGSFGDIYLGANIASGEEVAIKLECVKTKHPQLH
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	47 kDa
Gene Name:	casein kinase 1 epsilon
Database Link:	NP_001885 Entrez Gene 1454 Human P49674



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Background:

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. CSNK1E can phosphorylate a large number of proteins. CSNK1E participates in Wnt signaling and is the central component of the circadian clock. It may act as a negative regulator of circadian rhythmicity by phosphorylating PER1 and PER2. CSNK1E inhibits cytokine-induced granulocytic differentiation. 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.

Synonyms:

CK1epsilon; HCKIE

Note:

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Yeast: 93%; Zebrafish: 93%

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Circadian rhythm - mammal, Hedgehog signaling pathway, Wnt signaling pathway

Product images:

WB Suggested Anti-CSNK1E Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1: 62500; Positive
Control: THP-1 cell lysate