

Datasheet for ABIN2784724

## anti-CK1 epsilon antibody (N-Term)



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### Overview

Quantity:	100 µL
Target:	CK1 epsilon (CSNK1E)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Sheep, Rabbit, Cow, Guinea Pig, Horse, Saccharomyces cerevisiae, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CK1 epsilon antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CSNK1E
Sequence:	MELRVGNKYR LGRKIGSGSF GDIYLGANIA SGEEVAIKLE CVKTKHPQLH
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Yeast: 93%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against CSNK1E. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	CK1 epsilon (CSNK1E)
Alternative Name:	CSNK1E ( <a href="#">CSNK1E Products</a> )
Background:	<p>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.</p> <p>Alias Symbols: HCKIE, MGC10398, CKIepsilon</p> <p>Protein Interaction Partner: DVL3, TIAM1, UBC, REST, ZSWIM8, TAZ, SAV1, DVL2, ADAM22, SNX24, AHCYL2, PER1, MCC, HMMR, TCEB2, STK3, SEC13, CSNK1D, CSNK1A1, CRY1, ACACA, FAM83H, FAM83B, VPS13B, FAM199X, KLHDC3, FAM110B, FAM110A, FAM83D, C2orf44, SNX22, STOX2, UNC45A, PPP6R3, WDR5, SDCC</p> <p>Protein Size: 416</p>
Molecular Weight:	47 kDa
Gene ID:	1454
NCBI Accession:	<a href="#">NM_001894</a> , <a href="#">NP_001885</a>
UniProt:	<a href="#">P49674</a>
Pathways:	<a href="#">Hedgehog Signaling</a> , <a href="#">M Phase</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 416 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
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## Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in:	Mehrle, Rosenfelder, Schupp, del Val, Arlt, Hahne, Bechtel, Simpson, Hofmann, Hide, Glatting, Huber, Pepperkok, Poustka, Wiemann: "The LIFEdb database in 2006." in: <b>Nucleic acids research</b> , Vol. 34, Issue Database issue, pp. D415-8, (2005) ( <a href="#">PubMed</a> ).
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## Images



### Western Blotting

#### Image 1. WB Suggested Anti-CSNK1E Antibody Titration:

0.2-1 ug/ml

**ELISA Titer:** 1:62500

**Positive Control:** THP-1 cell lysate