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anti-CK1 epsilon antibody (N-Term)



Image



Publication



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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		
lmmunogen:	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

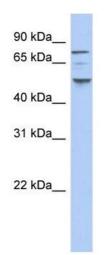
Target:	CK1 epsilon (CSNK1E)	
Alternative Name:	CSNK1E (CSNK1E Products)	
Background:	Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. CSNK1E can phosphorylate a large number of proteins. CSNK1E participates in Wnt signaling 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 granuloytic 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. Alias Symbols: HCKIE, MGC10398, CKIepsilon Protein Interaction Partner: DVL3, TIAM1, UBC, REST, ZSWIM8, TAZ, SAV1, DVL2, ADAM22, SNX24, AHCYL2, PER1, MCC, HMMR, TCEB2, STK3, SEC13, CSNK1D, CSNK1A1, CRY1, ACAC4 FAM83H, FAM83B, VPS13B, FAM199X, KLHDC3, FAM110B, FAM110A, FAM83D, C2orf44, SNX22, STOX2, UNC45A, PPP6R3, WDR5, SDCC Protein Size: 416	
Molecular Weight:	47 kDa	
Gene ID:	1454	
NCBI Accession:	NM_001894, NP_001885	
UniProt:	P49674	
Pathways:	Hedgehog Signaling, M Phase	
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	

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: Nucleic acids	

research, Vol. 34, Issue Database issue, pp. D415-8, (2005) (PubMed).

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