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Product datasheet for CF803780

CK1 epsilon (CSNK1E) Mouse Monoclonal Antibody [Clone ID: OTI2B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2B3
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 153-416 of human CSNK1E (NP_689407) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	casein kinase 1 epsilon
Database Link:	NP_689407 Entrez Gene 27373 MouseEntrez Gene 58822 RatEntrez Gene 1454 Human P49674

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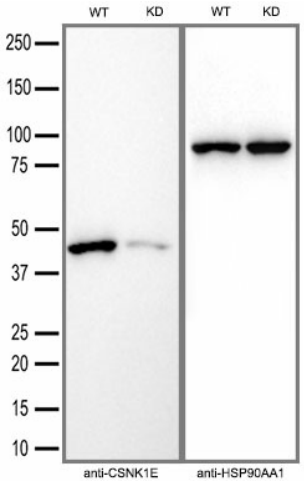
Background: The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein is found in the cytoplasm 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. [provided by RefSeq, Jul 2008]

Synonyms: CKIepsilon; HCKIE

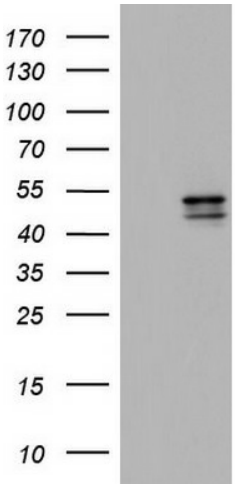
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Circadian rhythm - mammal, Hedgehog signaling pathway, Wnt signaling pathway

Product images:



Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and CSNK1E-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-CSNK1E monoclonal antibody [TA803780] (1:2500). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CSNK1E ([RC202436], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CSNK1E. Positive lysates [LY403455] (100ug) and [LC403455] (20ug) can be purchased separately from OriGene.