CSNK1D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CSNK1D, Polyclonal Antibody
Full Product Name	CSNK1D Antibody, Biotin conjugated
Product Gene Name	anti-CSNK1D antibody
Product Synonym Names	Casein kinase I isoform delta (EC:2.7.11.1); CKI-delta; CKId; CSNK1D; HCKID; Tau-protein kinase CSNK1D (EC:2.7.11.26)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: CSNK1D (MBS7002755) Biotin Conjugated Antibody: CSNK1D (MBS1495640)
Molecular Weight	46,832 Da
OMIM	600864
3D Structure	ModBase 3D Structure for P48730
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Biotin
Immunogen	Recombinant human Casein kinase I isoform delta protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-6474 / sc-6473 / sc-6475 / sc-6472 / sc-20709
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CSNK1D antibody	ELISA (EIA)

Related Product Information for anti-CSNK1D antibody	Essential serine/threonine-protein kinase that regulates diverse cellular growth and survival processes including Wnt signaling, DNA repair and circadian rhythms. It can phosphorylate a large number of proteins. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. Phosphorylates connexin-43/GJA1, MAP1A, SNAPIN, MAPT/TAU, TOP2A, DCK, HIF1A, EIF6, p53/TP53, DVL2, DVL3, ESR1, AIB1/NCOA3, DNMT1, PKD2, YAP1, PER1 and PER2. Central component of the circadian clock. In balance with PP1, determines the circadian period length through the regulation of the speed and rhythmicity of PER1 and PER2 phospohorylation. Controls PER1 and PER2 nuclear transport and degradation. YAP1 phosphorylation promotes its SCF(beta-TRCP) E3 ubiquitin ligase-mediated ubiquitination and subsequent degradation. DNMT1 phosphorylation reduces its DNA-binding activity. Phosphorylation of ESR1 and AIB1/NCOA3 stimulates their activity and coactivation. Phosphorylation of DVL2 and DVL3 regulates WNT3A signaling pathway that controls neurite outgrowth. EIF6 phosphorylation promotes its nuclear export. Triggers down-regulation of dopamine receptors in the forebrain. Activates DCK in vitro by phosphorylation. TOP2A phosphorylation favors DNA cleavable complex formation. May regulate the formation of the mitotic spindle apparatus in extravillous trophoblast. Modulates connexin-43/GJA1 gap junction assembly by phosphorylation. Probably involved in lymphocyte physiology. Regulates fast synaptic transmission mediated by glutamate.
Other Notes	Small volumes of anti-CSNK1D antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CSNK1D purchase	MBS1495640 is an antibody targeting CSNK1D. Also known as CSNK1D Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSNK1D. It may not necessarily be applicable to this product.

NCBI GI #	20149530
NCBI GeneID	1453
NCBI Accession #	NP_001884.2
UniProt Primary Accession #	P48730
UniProt Secondary Accession #	Q96KZ6; Q9BTN5; A2I2P2
UniProt Related Accession #	P48730
GenBank Nucleotide #	NM_001893.4
NCBI Official Full Name	casein kinase I isoform delta isoform 1
NCBI Official Synonym Full Names	casein kinase 1 delta
NCBI Official Symbol	CSNK1D
NCBI Official Synonym Symbols	ASPS; HCKID; FASPS2; CKIdelta
UniProt Protein Name	Casein kinase I isoform delta
UniProt Synonym Protein Names	Tau-protein kinase CSNK1D (EC:2.7.11.26)
Protein Family	Casein kinase
UniProt Gene Name	CSNK1D
UniProt Synonym Gene Names	HCKID; CKI-delta; CKId
UniProt Entry Name	KC1D_HUMAN
NCBI Protein Information	casein kinase I isoform delta
NCBI Summary for CSNK1D	This gene is a member of the casein kinase I (CKI) gene family whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein may also be involved in the regulation of apoptosis, circadian rhythm, microtubule dynamics, chromosome segregation, and p53-mediated effects on growth. The encoded protein is highly similar to the mouse and rat CK1 delta homologs. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]

UniProt Comments for CSNK1D	CK1D: an ubiquitous protein kinase of the CK1 family. Enriched at the centrosomes in interphase and at the spindle during mitosis. May play a role in cell cycle progression. Two splice variant isoforms have been described. Protein type: Kinase, protein; EC 2.7.11.26; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Protein kinase, CK1; CK1 group; CK1 family Chromosomal Location of Human Ortholog: 17q25 Cellular Component: centrosome; cytosol; ER-Golgi intermediate compartment membrane; Golgi apparatus; Golgi membrane; neuron projection; nucleus; perinuclear region of cytoplasm; plasma membrane; spindle; spindle microtubule Molecular Function: ATP binding; glycoprotein binding; peptide binding; phosphoprotein binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; tau-protein kinase activity Biological Process: cellular protein metabolic process; circadian regulation of gene expression; COPII coating of Golgi vesicle; DNA repair; ER to Golgi vesicle-mediated transport; G2/M transition of mitotic cell cycle; Golgi organization and biogenesis; microtubule nucleation; mitotic cell cycle; organelle organization and biogenesis; peptidyl-serine phosphorylation; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; positive regulation of protein amino acid phosphorylation; post-translational protein modification; protein amino acid N-linked glycosylation via asparagine; protein amino acid phosphorylation; protein localization in Golgi apparatus; regulation of circadian rhythm; sensory cilium biogenesis; signal transduction; spindle assembly; Wnt receptor signaling pathway Disease: Advanced Sleep Phase Syndrome, Familial, 2
Research Articles on CSNK1D	**1.** Inhibition of CK1delta increases lipid droplet formation and proliferation of both cancer and normal cells specifically under hypoxia and in an HIF-1alpha- and lipin-1-dependent manner.
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