CSNK2B siRNA – Casein Kinase II Subunit Beta Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	CSNK2B, siRNA
Full Product Name	CSNK2B siRNA (Human)
Product Gene Name	CSNK2B sirna
Product Synonym Names	CK2N; G5A; Casein kinase II subunit beta; CK II beta; Phosvitin; Protein G5a
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CSNK2B siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	24,942 Da
OMIM	115441
3D Structure	ModBase 3D Structure for P67870
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human CSNK2B gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for CSNK2B sirna	RNA Interference (RNAi)
Related Product Information for CSNK2B sirna	MBS828225 is an siRNA targeting CSNK2B. Also known as CSNK2B siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit CSNK2B expression using RNA interference
Other Notes	Small volumes of CSNK2B sirna 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSNK2B. It may not necessarily be applicable to this product.

NCBI GI #	538260597
NCBI GeneID	1460
NCBI Accession #	NP_001269314.1
UniProt Primary Accession #	P67870
UniProt Secondary Accession #	P07312; P13862; Q4VX47; B0UXA9
UniProt Related Accession #	P67870
GenBank Nucleotide #	NM_001282385.1
NCBI Official Full Name	casein kinase II subunit beta isoform 2
NCBI Official Synonym Full Names	casein kinase 2, beta polypeptide
NCBI Official Symbol	CSNK2B
NCBI Official Synonym Symbols	G5A; CK2B; CK2N; CSK2B
UniProt Protein Name	Casein kinase II subunit beta
UniProt Synonym Protein Names	Phosvitin; Protein G5a
UniProt Gene Name	CSNK2B
UniProt Synonym Gene Names	CK2N; G5A; CK II beta
UniProt Entry Name	CSK2B_HUMAN
NCBI Protein Information	casein kinase II subunit beta
NCBI Summary for CSNK2B	This gene encodes the beta subunit of casein kinase II, a ubiquitous protein kinase which regulates metabolic pathways, signal transduction, transcription, translation, and replication. The enzyme is composed of three subunits, alpha, alpha prime and beta, which form a tetrameric holoenzyme. The alpha and alpha prime subunits are catalytic, while the beta subunit serves regulatory functions. The enzyme localizes to the endoplasmic reticulum and the Golgi apparatus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]
UniProt Comments for CSNK2B	CK2B: a regulatory subunit of the casein kinase 2 holoenzyme. Exists as a tetramer composed of two catalytic subunits, alpha and alpha-prime, and two regulatory beta subunits. The beta subunits undergo autophosphorylation. Plays a complex role in regulating the basal catalytic activity of the alpha subunit. Participates in Wnt signaling Protein type: Protein kinase, regulatory subunit Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: cytoplasm; plasma membrane; protein kinase CK2 complex; PcG protein complex; cytosol; nucleus Molecular Function: protein domain specific binding; identical protein binding; protein serine/threonine kinase activity; protein binding; metal ion binding; protein kinase regulator activity; transcription factor binding; receptor binding Biological Process: axon guidance; negative regulation of cell proliferation; positive regulation of activin receptor signaling pathway; cellular protein complex assembly; Wnt receptor signaling pathway; regulation of DNA binding; adiponectin-mediated signaling pathway; mitotic cell cycle; signal transduction; negative regulation of blood vessel endothelial cell migration; regulation of protein kinase activity; protein amino acid phosphorylation
Research Articles on CSNK2B	**1.** Asymmetric alpha2beta2 tetramers of casein kinase 2 are organized in trimeric rings that correspond to inactive forms of the enzyme. The new crystal structures presented here reveal the symmetric architecture of the isolated active tetramers.

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