CSNK2A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CSNK2A1, Polyclonal Antibody
Full Product Name	CSNK2A1 (Center) Rabbit pAb
Product Gene Name	anti-CSNK2A1 antibody
Product Synonym Names	Casein kinase II subunit alpha; CK II alpha; CSNK2A1; CK2A1
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB48211
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purified
OMIM	115440
3D Structure	ModBase 3D Structure for P68400
Immunogen	This CSNK2A1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 250-284 amino acids from the central region of human CSNK2A1.
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CSNK2A1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CSNK2A1 antibody	WB: 1:1000 IHC: 1:25
Related Product Information for anti-CSNK2A1 antibody	MBS8555879 is an antibody targeting CSNK2A1. Also known as CSNK2A1 (Center) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CSNK2A1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSNK2A1. It may not necessarily be applicable to this product.

NCBI GI #	4503095
NCBI GeneID	1457
NCBI Accession #	NP_001886.1
UniProt Primary Accession #	P68400
UniProt Related Accession #	P68400
GenBank Nucleotide #	NP_001886.1

NCBI Official Full Name	casein kinase II subunit alpha isoform a
NCBI Official Synonym Full Names	casein kinase 2 alpha 1
NCBI Official Symbol	CSNK2A1
NCBI Official Synonym Symbols	CKII; Cka1; Cka2; CK2A1; OCNDS
UniProt Protein Name	Casein kinase II subunit alpha
Protein Family	Casein kinase
UniProt Gene Name	CSNK2A1
UniProt Synonym Gene Names	CK2A1; CK II alpha
UniProt Entry Name	CSK21_HUMAN
NCBI Protein Information	casein kinase II subunit alpha
NCBI Summary for CSNK2A1	Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythm. The kinase exists as a tetramer and is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. The protein encoded by this gene represents the alpha subunit. Multiple transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Apr 2018]
UniProt Comments for CSNK2A1	CK2A1: an ubiquitous protein kinase of the CK2 family. Exists as a tetramer composed of two catalytic subunits, alpha and alpha-prime, and two regulatory beta subunits. The beta subunits undergo autophosphorylation. The isoforms are rarely specified in publications. Two splice variant isoforms have been found. Participates in Wnt signaling. Phosphorylates E2 ubiquitin conjugating enzyme UBC3B inducing its interaction with beta-TRCp and enhancing beta-catenin degradation. May control IkB-alpha and p27Kip1 degradation. component of a CK2-SPT16-SSRP1 complex composed of SSRP1, PT16 CK2-A1, CK2-A2 and CK2-B the complex associating following UV irradiation. Interacts with RNPS1. Mouse transgene causes mammary gland hyperplasia and lymphoma, and activation by bovine parasites leads to fatal lymphoproliferation. Expression and activity are elevated in lung tumors and breast tumors. Antisense drives apoptosis of tumor cell lines and xenografts. Involved in DNA break repair by phosphorylation of scaffold protein XRCC1, phosphorylation of BRCA1, and phosphorylation of p53 in response to UV irradiation. Drosophila CK2 (Timekeeper) is involved in circadian regulation. Phosphorylates and binds to a major component of the inclusion bodies seen in Parkinson?s patients. Inhibitors: 4,5,6,7-tetrabromobenzotriazole (TBB). Protein type: EC 2.7.11.1; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, Other; Other group; CK2 family Chromosomal Location of Human Ortholog: 20p13 Cellular Component: Sin3 complex; plasma membrane; NuRD complex; PcG protein complex; nucleus; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; protein N-terminus binding; Hsp90 protein binding; ATP binding Biological Process: axon guidance; Wnt receptor signaling pathway; transcription, DNA-dependent; regulation of transcription, DNA-dependent; positive regulation of cell proliferation; rhythmic process; positive regulation of protein catabolic process; negative regulation of caspase activity; mitotic cell cycle; signal transduction; positive regulation of cell growth; positive regulation of Wnt receptor signaling pathway; protein amino acid phosphorylation
Research Articles on CSNK2A1	**1.** CSNK2A1 plays a role in the nuclear translocation of ERK1/2. Ser246 phosphorylation by CK2 is sufficient for full ERK translocation, while Ser244 phosphorylation accelerates it.
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