CSNK2A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Csnk2a1, Polyclonal Antibody
Full Product Name	Csnk2a1 (Casein Kinase II Subunit alpha, CK II alpha, Csnk2a1) (MaxLight 650)
Product Gene Name	anti-Csnk2a1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Human, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes R Csnk2a1. Species Crossreactivity: human, rat
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45,073 Da
3D Structure	ModBase 3D Structure for P19139
Immunogen	KLH conjugated synthetic peptide corresponding to aa28-50 at the N-terminal region of Rat Csnk2a1. Species sequence homology: bovine, chicken, mouse, rabbit, xenopus, C.Elegans, drosophila
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-Csnk2a1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Csnk2a1 antibody	Western Blot (WB)
Application Notes for anti-Csnk2a1 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-Csnk2a1 antibody	MBS6455290 is an antibody targeting Csnk2a1. Also known as Csnk2a1 (Casein Kinase II Subunit alpha, CK II alpha, Csnk2a1) (MaxLight 650). Reactive in Mouse, Human, Rat. Host: Rabbit.
Product References and Citations for anti-Csnk2a1 antibody	Ahmed K., et al. Cell. Mol. Biol. Res. 39:451-462(1993). Meisner H., et al. Biochemistry 28:4072-4076(1989). Li P.F., et al. Mol. Cell 10:247-258(2002). Zhou W., et al. Chin. Sci. Bull. 54:220-226(2009).
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 #	16758674

NCBI GeneID	116549
NCBI Accession #	NP_446276.1
UniProt Primary Accession #	P19139
UniProt Secondary Accession #	P08181; P18334; Q8NEV1; O54833; P19784; P21869; P20427; P28020; P33674; Q60737; P68400; P21868; P68399
UniProt Related Accession #	P19139
GenBank Nucleotide #	NM_053824.2
NCBI Official Full Name	casein kinase II subunit alpha
NCBI Official Synonym Full Names	casein kinase 2, alpha 1 polypeptide
NCBI Official Symbol	Csnk2a1
UniProt Protein Name	Casein kinase II subunit alpha
Protein Family	Casein kinase
UniProt Gene Name	Csnk2a1
UniProt Synonym Gene Names	CK II alpha
UniProt Entry Name	CSK21_RAT
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 rhythms. 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. [provided by RefSeq, Feb 2014]
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: Kinase, protein; Protein kinase, Other; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Other group; CK2 family Cellular Component: nucleus; NuRD complex; PcG protein complex; protein kinase CK2 complex; Sin3 complex Molecular Function: ATP binding; beta-catenin binding; kinase activity; protein N-terminus binding; protein phosphatase regulator activity; protein serine/threonine kinase activity Biological Process: negative regulation of caspase activity; positive regulation of cell growth; positive regulation of cell proliferation; positive regulation of protein catabolic process; positive regulation of Wnt receptor signaling pathway; protein amino acid autophosphorylation; protein amino acid phosphorylation; regulation of cell growth; regulation of cell proliferation; regulation of transcription, DNA-dependent; rhythmic process; transcription, DNA-dependent; Wnt receptor signaling pathway
Research Articles on Csnk2a1	**1.** Phosphorylation by CK2 impairs Par-4 proapoptotic functions.

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