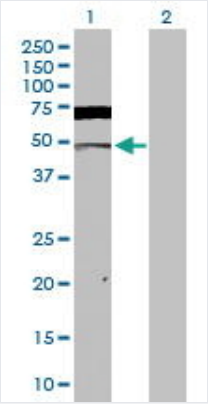
CSNK2A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CSNK2A1, Polyclonal Antibody
Full Product Name	CSNK2A1 (Casein Kinase II Subunit alpha, CK II alpha, CK2A1) (Biotin)
Product Gene Name	anti-CSNK2A1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CSNK2A1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	45,144 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (463338..524482, complement). Location: 20p13
OMIM	115440
3D Structure	ModBase 3D Structure for P68400
Immunogen	Full length human CSNK2A1, aa1-391 (NP_001886.1).
Immunogen Sequence	MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGRGKYSEVFEAINITNNEKVVVKILKPVKKKKIKREIKILENLRGGPNIITLADIVKI
Conjugate	Biotin
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	Applications are based on unconjugated antibody.

Related Product Information for anti-CSNK2A1 antibody	Casein Kinase 2 (CK2, also called PKCK2) is a ubiquitous Ser/Thr kinase expressed in all eukaryotes. CK2 is a tetramer composed of two catalytic kin
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 nec
Searchable Terms for CSNK2A1 purchase	MBS6374909 is an antibody targeting CSNK2A1. Also known as CSNK2A1 (Casein Kinase II Subunit alpha, CK II alpha, CK2A1) (Biotin). Reactive in



Western Blot (WB) of anti-CSNK2A1 antibody
Western Blot analysis of CSNK2A1 expression in transfected 293T cell line by CSNK2A1 polyclonal antibody. Lane 1: CSNK2A1 transfected lysate (45.1kD). Lane 2: Non-transfected lysate.

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 Secondary Accession #	P19138; P20426; Q14013; Q5U065; B4DYS6; D3DVV8
UniProt Related Accession #	P68400; Q8NEV1
GenBank Nucleotide #	NM_001895.3
NCBI Official Full Name	casein kinase II subunit alpha isoform a
NCBI Official Synonym Full Names	casein kinase 2, alpha 1 polypeptide
NCBI Official Symbol	CSNK2A1
NCBI Official Synonym Symbols	CKII; CK2A1; CSNK2A3
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; CK II alpha 3; protein kinase CK2; CK2 catalytic subunit alpha; casein kinase II alpha 1 subunit; casein kinase II alpha 1 polypeptide pseudogene
NCBI Summary for CSNK2A1	Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. 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. While this gene is found on chromosome 20, a related transcribed pseudogene is found on chromosome 11. Three transcript variants encoding two different proteins have been found for this gene. [provided by RefSeq, Jul 2008]
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.** PI3K is involved in CKII inhibition-mediated cellular senescence in HCT116 cells.
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