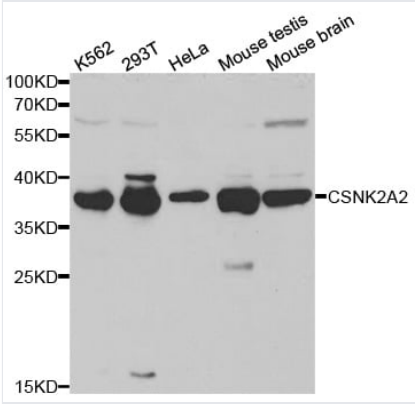
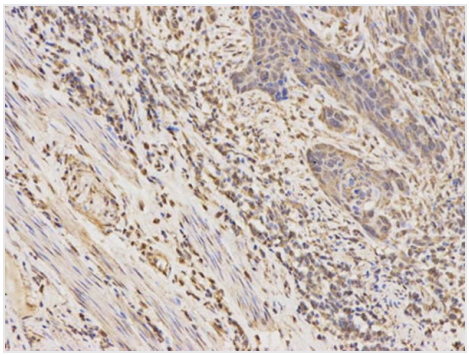
CSNK2A2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

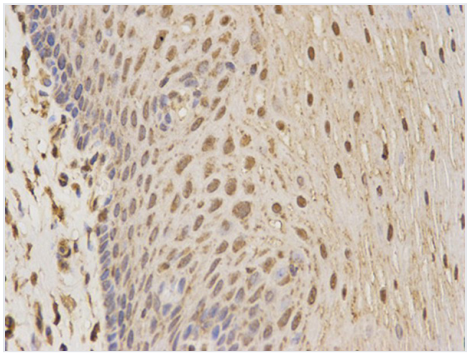
Product Name	CSNK2A2, Polyclonal Antibody
Full Product Name	CSNK2A2 Antibody
Product Gene Name	anti-CSNK2A2 antibody
Product Synonym Names	CK2A2; CSNK2A1; FLJ43934
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total CSNK2A2 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	41,213 Da
OMIM	115442
3D Structure	ModBase 3D Structure for P19784
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CSNK2A2.
Target Name	CSNK2A2
Product Categories/Family for anti-CSNK2A2 antibody	Total protein Ab
Applications Tested/Suitable for anti-CSNK2A2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CSNK2A2 antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:100
Related Product Information for anti-CSNK2A2 antibody	Casein kinase I (also designated CKI) and casein kinase II (CKII) compose a family of serine/threonine protein kinases which are present in all eukaryotes examined to date. Casein kinase I family members, which include casein kinase I , I , I and Ie, have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. CKII is usually expressed as a tetrameric complex consisting of either an 2¡'2 or an '¡'2 structure. The a catalytic subunit is stimulated by the ¡' regulatory subunit, which undergoes autophosphorylation. Casein kinase II activity is high in the cytosol and nucleus of proliferating and differentiating cells. Casein kinase II is known to phosphorylate more than 100 different substrates including nuclear oncoproteins, transcription factors and enzymes involved in DNA metabolism.
Other Notes	Small volumes of anti-CSNK2A2 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 CSNK2A2 purchase	MBS9404256 is an antibody targeting CSNK2A2. Also known as CSNK2A2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



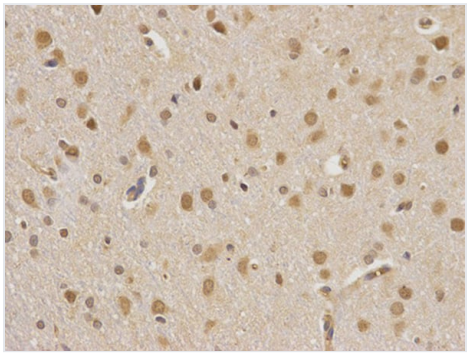
Western Blot (WB) of anti-CSNK2A2 antibody
Western blot analysis of extracts of various cell lines, using CSNK2A2 antibody.



Immunohistochemistry (IHC) of anti-CSNK2A2 antibody
Immunohistochemical analysis of paraffin-embedded human esophageal cancer using CSNK2A2 antibody at dilution of 1:100 (200x lens).



Immunohistochemistry (IHC) of anti-CSNK2A2 antibody
Immunohistochemical analysis of paraffin-embedded human esophagus using CSNK2A2 antibody at dilution of 1:100 (400x lens).



Immunohistochemistry (IHC) of anti-CSNK2A2 antibody
Immunohistochemical analysis of paraffin-embedded rat brain using CSNK2A2 antibody at dilution of 1:100 (400x lens).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSNK2A2. It may not necessarily be applicable to this product.

NCBI GI #	4503097
NCBI GeneID	1459
NCBI Accession #	NP_001887.1
UniProt Primary Accession #	P19784
UniProt Related Accession #	P19784
GenBank Nucleotide #	NM_001896.2
NCBI Official Full Name	casein kinase II subunit alpha'
NCBI Official Synonym Full Names	casein kinase 2, alpha prime polypeptide
NCBI Official Symbol	CSNK2A2
NCBI Official Synonym Symbols	CK2A2; CSNK2A1
UniProt Protein Name	Casein kinase II subunit alpha'
Protein Family	Casein kinase
UniProt Gene Name	CSNK2A2
UniProt Synonym Gene Names	CK2A2; CK II alpha'
UniProt Entry Name	CSK22_HUMAN
NCBI Protein Information	casein kinase II subunit alpha'

UniProt Comments for CSNK2A2	CK2A2: Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection. May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response. During mitosis, functions as a component of the p53/TP53-dependent spindle assembly checkpoint (SAC) that maintains cyclin-B-CDK1 activity and G2 arrest in response to spindle damage. Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation. Can also negatively regulate apoptosis. Phosphorylates the caspases CASP9 and CASP2 and the apoptotic regulator NOL3. Phosphorylation protects CASP9 from cleavage and activation by CASP8, and inhibits the dimerization of CASP2 and activation of CASP8. Regulates transcription by direct phosphorylation of RNA polymerases I, II, III and IV. Also phosphorylates and regulates numerous transcription factors including NF-kappa-B, STAT1, CREB1, IRF1, IRF2, ATF1, SRF, MAX, JUN, FOS, MYC and MYB. Phosphorylates Hsp90 and its co-chaperones FKBP4 and CDC37, which is essential for chaperone function. Regulates Wnt signaling by phosphorylating CTNNB1 and the transcription factor LEF1. Acts as an ectokinase that phosphorylates several extracellular proteins. During viral infection, phosphorylates various proteins involved in the viral life cycles of EBV, HSV, HBV, HCV, HIV, CMV and HPV. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CK2 subfamily. Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, Other; EC 2.7.11.1; Other group; CK2 family Chromosomal Location of Human Ortholog: 16q21 Cellular Component: PcG protein complex; nucleus; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; protein N-terminus binding; ATP binding Biological Process: axon guidance; Wnt receptor signaling pathway; regulation of transcription, DNA-dependent; transcription, DNA-dependent; apoptosis; mitotic cell cycle; protein amino acid phosphorylation
Research Articles on CSNK2A2	**1.** Data suggest casein kinase II (CK2) inhibitors indeno[1,2-b]indole-9,10-dione, which also inhibited the breast cancer resistance protein ABCG2, might be a good therapeutic strategy to improve anticancer drug efficiency.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/csnk2a2/9404256