

Anti-CSNK2A2 Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18556**Specification**

Anti-CSNK2A2 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P19784
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	41213

Anti-CSNK2A2 Antibody - Additional Information**Gene ID 1459**Alias Symbol **CSNK2A2****Other Names**

CSNK2A2, CASEIN KINASE II ALPHA', Casein kinase II subunit alpha, Ck2alpha', Casein kinase 2 alpha', CK2A2, CK II alpha

Target/Specificity

Human CSNK2A2

Reconstitution & Storage

Caprylic acid and ammonium sulfate precipitation

Precautions

Anti-CSNK2A2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CSNK2A2 Antibody - Protein Information**Name** CSNK2A2**Synonyms** CK2A2**Function**

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 (PubMed: 11239457, PubMed: 11704824, PubMed: 16193064, PubMed: 30898438). Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection (PubMed: 30898438).

href="http://www.uniprot.org/citations/11704824" target="_blank">11704824, PubMed:16193064, PubMed:30898438). May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response (PubMed:12631575, PubMed:19387552, PubMed:19387551). 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 (PubMed:12631575, PubMed:19387552, PubMed:19387551). Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation (PubMed:11239457). Phosphorylates a number of DNA repair proteins in response to DNA damage, such as MDC1, RAD9A, RAD51 and HTATSF1, promoting their recruitment to DNA damage sites (PubMed:20545769, PubMed:21482717, PubMed:22325354, PubMed:26811421, PubMed:30898438, PubMed:35597237). Can also negatively regulate apoptosis (PubMed:19387552, PubMed:19387551). Phosphorylates the caspases CASP9 and CASP2 and the apoptotic regulator NOL3 (PubMed:12631575, PubMed:19387552, PubMed:19387551). Phosphorylation protects CASP9 from cleavage and activation by CASP8, and inhibits the dimerization of CASP2 and activation of CASP8 (PubMed:12631575, PubMed:19387552, PubMed:19387551). Regulates transcription by direct phosphorylation of RNA polymerases I, II, III and IV (PubMed:12631575, PubMed:19387552, PubMed:19387551). Also phosphorylates and regulates numerous transcription factors including NF-kappa-B, STAT1, CREB1, IRF1, IRF2, ATF1, SRF, MAX, JUN, FOS, MYC and MYB (PubMed:12631575, PubMed:19387552, PubMed:19387551). Phosphorylates Hsp90 and its co-chaperones FKBP4 and CDC37, which is essential for chaperone function (PubMed:19387550). Regulates Wnt signaling by phosphorylating CTNNB1 and the transcription factor LEF1 (PubMed:19387549). Acts as an ectokinase that phosphorylates several extracellular proteins (PubMed:12631575, PubMed:19387552, PubMed:19387551). During viral infection, phosphorylates various proteins involved in the viral life cycles of EBV, HSV, HBV, HCV, HIV, CMV and HPV (PubMed:12631575, PubMed:19387552, PubMed:19387551).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:O54833}. Cytoplasm {ECO:0000250|UniProtKB:O54833}.
Note=Interaction with SIRT6 prevents translocation into the nucleus.
{ECO:0000250|UniProtKB:O54833}

Anti-CSNK2A2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CSNK2A2 Antibody - Images