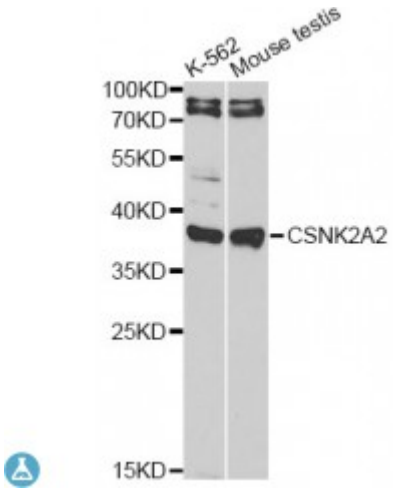
Anti-CSNK2A2 Antibody



Model	STJ115442
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-350 of human CSNK2A2 (NP_001887.1).
Gene ID	1459
Gene Symbol	CSNK2A2
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Casein kinase II subunit alpha' CK II alpha'
Molecular Weight	41.213 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:2459OMIM:115442Reactome:R-HSA-1483191
Alternative Names	Casein kinase II subunit alpha' CK II alpha'

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, 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,