

Recombinant Human CSNK2A2 / CK2A2 Protein

db58560

Package : 10µg 50µg 100µg 1mg

Product Name : Recombinant Human CSNK2A2 / CK2A2 Protein**Cat.No.:** db58560**Synonyms** : CK2A2;CSNK2A1**Application** : Positive Control, Immunogen, SDS-PAGE, WB**Expression host** : Baculovirus-Insect Cells**Species** : Human**Background**

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.

Gene ID	1459
Swiss Prot	P19784
Synonyms	CK2A2;CSNK2A1
Application	Positive Control, Immunogen, SDS-PAGE, WB
Molecular Weight	41.4 kDa
Species	Human
Purity	>90% as determined by SDS-PAGE.

Seq	Met 1-Arg 350
Formulation	Freeze-dried powder
Storage Stability	Store at 2-8℃ for one month. Aliquot and store at -80℃ for 12 months. Avoid repeated freeze/thaw cycles.

15% SDS PAGE(reduced) analysis of Recombinant Human CSNK2A2 / CK2A2 Protein

