

Product datasheet for TP505293

Csnk2a2 (NM_009974) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse casein kinase 2, alpha prime polypeptide (Csnk2a2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205293 protein sequence Red =Cloning site Green =Tags(s) MPGPAAGSRARVYAEVNSLRSREYWDYEAHVPSWGNQDDYQLVRKLGRGKYSEVF EAINITNNERVVVKI LKPVKKKKIKREVKILENLRGGTNIILIDTVKDPVSKTPALVFEYINNTDFKQLYQILTD FDIRFYMYE LLKALDYCHSKGIMHRDVKPHNVMIDHQQKKRLIDWGLAEFYHPAQEYNVRVASRYFKGPELLVDYQM Y DYSLDMWSLGCMLASMIFRKEPFFHGQDN YDQLVRIAKVLGTDELYGYLKKYHIDLDPHFNDILGQH SRK RWENFIHSENRLVSP EALDLLDKLLRYDHQQR LTAKEAMEHPYFYPVWKEQSQPCAENTVLS SGLTAAR TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	41.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_034104
Locus ID:	13000
UniProt ID:	Q54833


[View online »](#)

RefSeq Size:	3766
Cytogenetics:	8 47.12 cM
RefSeq ORF:	1050
Synonyms:	1110035J23Rik; C77789; CK2
Summary:	<p>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 (By similarity).[UniProtKB/Swiss-Prot Function]</p>