

Product datasheet for **TA328199S**

Csnk2a1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Rat (Predicted: Mouse, Bovine, Chicken, Drosophila, Rabbit, Xenopus, C. elegans)
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This Rat Csnk2a1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-50 amino acids from the N-terminal region of Rat Csnk2a1.
Formulation:	PBS with 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	casein kinase 2 alpha 1
Database Link:	NP_446276 Entrez Gene 1457 Human Entrez Gene 12995 Mouse Entrez Gene 116549 Rat P19139

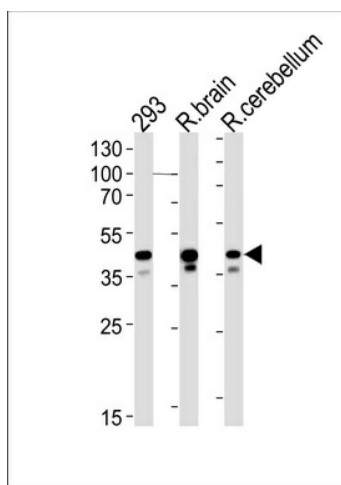
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Background:

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.

Synonyms:

CK2A1; CKII

Product images:


Rat Csnk2a1 Antibody (N-term) (Cat. # [TA328199]) western blot analysis in 293 cell line, rat brain and cerebellum tissue lysates (35ug/lane). This demonstrates the Rat Csnk2a1 antibody detected the Rat Csnk2a1 protein (arrow).