

Datasheet for ABIN1881717

anti-CSNK2A1/CK II alpha antibody (N-Term)[Go to Product page](#)**1** Image**2** Publications

Overview

Quantity:	400 µL
Target:	CSNK2A1/CK II alpha (CSNK2A1)
Binding Specificity:	AA 28-50, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSNK2A1/CK II alpha antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

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.
Isotype:	Ig Fraction
Predicted Reactivity:	B, C, M, Rb, X, E, D
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CSNK2A1/CK II alpha (CSNK2A1)
Alternative Name:	Csnk2a1 (CSNK2A1 Products)
Background:	Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that

Target Details

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.

Molecular Weight:	45073
NCBI Accession:	NP_446276
UniProt:	P19139
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C

Handling

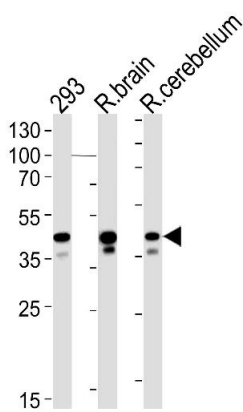
Expiry Date: 6 months

Publications

Product cited in: Akpa, Oyejola: "Modeling the transmission dynamics of HIV/AIDS epidemics: an introduction and a review." in: **Journal of infection in developing countries**, Vol. 4, Issue 10, pp. 597-608, (2010) ([PubMed](#)).

Kladney, Cardiff, Kwiatkowski, Chiang, Weber, Arbeit, Lu: "Tuberous sclerosis complex 1: an epithelial tumor suppressor essential to prevent spontaneous prostate cancer in aged mice." in: **Cancer research**, Vol. 70, Issue 21, pp. 8937-47, (2010) ([PubMed](#)).

Images



Western Blotting

Image 1. Rat Csnk2a1 Antibody (N-term) (ABIN1881717 and ABIN2843635) western blot analysis in 293 cell line , rat brain and cerebellum tissue lysates (35 µg/lane).This demonstrates the Rat Csnk2a1 antibody detected the Rat Csnk2a1 protein (arrow).