

Datasheet for ABIN1944742

anti-CSNK2A1/CK II alpha antibody (AA 250-284)[Go to Product page](#)

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Overview

Quantity:	400 µL
Target:	CSNK2A1/CK II alpha (CSNK2A1)
Binding Specificity:	AA 250-284
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSNK2A1/CK II alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CSNK2A1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 250-284 amino acids from the Central region of human CSNK2A1.
Clone:	RB48211
Isotype:	Ig Fraction
Predicted Reactivity:	B, C, M, Rb, Rat, X, E
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)

Target Details

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. Phosphorylates PML at 'Ser-565' and primes it for ubiquitin-mediated degradation.
Molecular Weight:	45144
Gene ID:	1457
UniProt:	P68400
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:25. IHC-P: 1:25. IHC-P: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

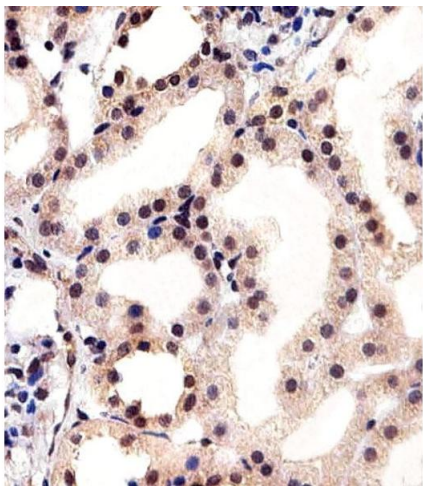
Handling

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
Expiry Date:	6 months

Publications

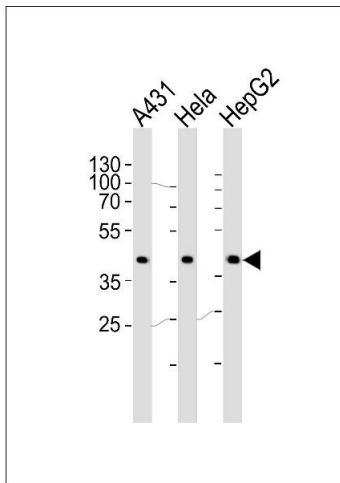
Product cited in:	Devilat, Carvallo: "Structure and sequence of an intronless gene for human casein kinase II- alpha subunit." in: FEBS letters , Vol. 316, Issue 2, pp. 114-8, (1993) (PubMed). Lozeman, Litchfield, Piening, Takio, Walsh, Krebs: "Isolation and characterization of human cDNA clones encoding the alpha and the alpha' subunits of casein kinase II." in: Biochemistry , Vol. 29, Issue 36, pp. 8436-47, (1991) (PubMed).
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Images



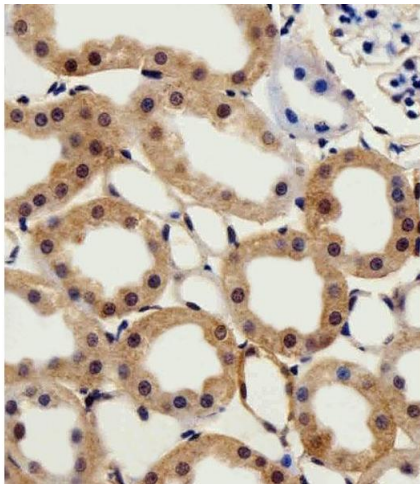
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded H.kidney section using CSNK2A1 Antibody (Center) (ABIN1944742 and ABIN2843650). (ABIN1944742 and ABIN2843650) was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Western Blotting

Image 2. Western blot analysis of lysates from A431, HeLa, HepG2 cell line (from left to right), using CSNK2A1 Antibody (Center) (ABIN1944742 and ABIN2843650). (ABIN1944742 and ABIN2843650) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical analysis of paraffin-embedded R.kidney section using CSNK2A1 Antibody (Center) (ABIN1944742 and ABIN2843650). (ABIN1944742 and ABIN2843650) was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1944742.