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Datasheet for ABIN6260852

anti-CSNK2A1/CK II alpha antibody (N-Term)





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| 0 10 | VICVV |

Target:

| Quantity: | 100 μL |
|--|---|
| Target: | CSNK2A1/CK II alpha (CSNK2A1) |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CSNK2A1/CK II alpha antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |
| | |
| Product Details | |
| | A synthesized peptide derived from human CKII alpha, corresponding to a region within N-terminal amino acids. |
| Immunogen: | |
| Immunogen: Isotype: | terminal amino acids. |
| Product Details Immunogen: Isotype: Specificity: Predicted Reactivity: | terminal amino acids. |
| Immunogen: Isotype: Specificity: | terminal amino acids. IgG CKII alpha Antibody detects endogenous levels of total CKII alpha. |

CSNK2A1/CK II alpha (CSNK2A1)

| Target Details | |
|-------------------|--|
| Alternative Name: | CSNK2A1 (CSNK2A1 Products) |
| Background: | Description: 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. Plays an important role in the circadian clock function by phosphorylating |
| | ARNTL/BMAL1 at 'Ser-90' which is pivotal for its interaction with CLOCK and which controls |
| | CLOCK nuclear entry (PubMed:11239457, PubMed:11704824, PubMed:16193064, |
| | PubMed:19188443, PubMed:20625391, PubMed:22406621). Phosphorylates CCAR2 at 'Thr- |
| | 454' in gastric carcinoma tissue (PubMed:24962073). |
| | Gene: CSNK2A1 |
| Molecular Weight: | 45 kDa |
| Gene ID: | 1457 |
| UniProt: | P68400 |
| Pathways: | SARS-CoV-2 Protein Interactome |

Application Details

Application Notes: WB 1:1000-3000, IHC 1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000

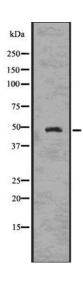
Application Details

Restrictions: For Research Use only

Handling

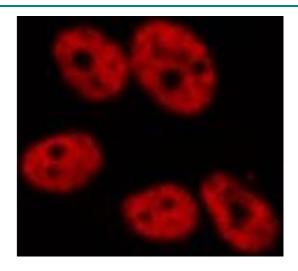
| Format: | Liquid |
|--------------------|--|
| Concentration: | 1 mg/mL |
| Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20 °C. Stable for 12 months from date of receipt. |
| Expiry Date: | 12 months |

Images



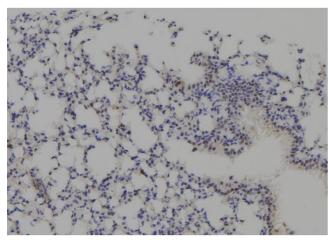
Western Blotting

Image 1. Western blot analysis of CKII alpha using HepG2 whole cell lysates



Immunofluorescence (fixed cells)

Image 2. ABIN6277771 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod



Immunohistochemistry

Image 3. ABIN6277771 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22¡ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

Please check the product details page for more images. Overall 4 images are available for ABIN6260852.