

Datasheet for ABIN731984

## anti-CSNK2A1/CK II alpha antibody (Cy7)



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### Overview

|              |                                                        |
|--------------|--------------------------------------------------------|
| Quantity:    | 100 µL                                                 |
| Target:      | CSNK2A1/CK II alpha (CSNK2A1)                          |
| Reactivity:  | Human, Mouse, Rat                                      |
| Host:        | Rabbit                                                 |
| Clonality:   | Polyclonal                                             |
| Conjugate:   | This CSNK2A1/CK II alpha antibody is conjugated to Cy7 |
| Application: | Western Blotting (WB)                                  |

### Product Details

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human CK II alpha |
| Isotype:              | IgG                                                             |
| Cross-Reactivity:     | Human, Rat                                                      |
| Predicted Reactivity: | Mouse,Dog,Cow                                                   |
| Purification:         | Purified by Protein A.                                          |

### Target Details

|                   |                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CSNK2A1/CK II alpha (CSNK2A1)                                                                                                                                                            |
| Alternative Name: | Ck II alpha ( <a href="#">CSNK2A1 Products</a> )                                                                                                                                         |
| Background:       | Synonyms: CKII, CK2A1, CSNK2A3, Casein kinase II subunit alpha, CK II alpha, CSNK2A1<br>Background: Catalytic subunit of a constitutively active serine/threonine-protein kinase complex |

## Target Details

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.

|           |                                                |
|-----------|------------------------------------------------|
| Gene ID:  | 1457                                           |
| UniProt:  | <a href="#">P68400</a>                         |
| Pathways: | <a href="#">SARS-CoV-2 Protein Interactome</a> |

## Application Details

|                    |                       |
|--------------------|-----------------------|
| Application Notes: | IF(IHC-P) 1:50-200    |
| Restrictions:      | For Research Use only |

## Handling

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Format:        | Liquid                                                                                                      |
| Concentration: | 1 µg/µL                                                                                                     |
| Buffer:        | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |

# 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:           | -20 °C                                                                                                                  |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                       |
| Expiry Date:       | 12 months                                                                                                               |