

Casein Kinase I α (phospho Tyr294) Polyclonal Antibody

Catalog No: #14019

Package Size: #14019-1 50ul #14019-2 100ul

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Description

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|-----------------------|---|
| Product Name | Casein Kinase I α (phospho Tyr294) Polyclonal Antibody |
| Host Species | Rabbit |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Applications | WB,IHC-p,IF(paraffin section),ELISA |
| Species Reactivity | Human,Mouse,Rat |
| Specificity | Phospho-Casein Kinase I α (Y294) Polyclonal Antibody detects endogenous levels of Casein Kinase I α protein only when phosphorylated at Y294. |
| Immunogen Description | The antiserum was produced against synthesized peptide derived from human CK-1 alpha around the phosphorylation site of Tyr294. AA range:260-309 |
| Other Names | CSNK1A1; Casein kinase I isoform alpha; CKI-alpha; CK1; CSNK1A1L; Casein kinase I isoform alpha-like; CKI-alpha-like; CK1 |
| Accession No. | Swiss Prot:P48729/Q8N752GeneID:1452/122011 |
| SDS-PAGE MW | 37 |
| Concentration | 1 mg/ml |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Storage | -20°C/1 |

Application Details

Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

Background

CSNK1A1 (Casein Kinase 1 Alpha 1) is a Protein Coding gene. Among its related pathways are Signaling by GPCR and Infectious disease. GO annotations related to this gene include transferase activity, transferring phosphorus-containing groups and protein tyrosine kinase activity. An important paralog of this gene is CSNK1G2. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at Ser-45. May phosphorylate PER1 and PER2. May play a role in segregating chromosomes during mitosis (PubMed: 11955436, PubMed: 1409656, PubMed: 18305108). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed: 23902688). Casein kinase I (CK1) is a monomeric serine-threonine protein kinase with 7 isoforms: alpha, beta, gamma1, gamma2, gamma3, delta and epsilon. CK1 is involved in many cellular processes including DNA repair, cell division, nuclear localization and membrane transport. Isoforms are also integral to development.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.