Datasheet for ABIN7317101

CSNK2A1/CK II alpha Protein (GST tag)

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1 Image

Overview

Quantity:	50 µg
Target:	CSNK2A1/CK II alpha (CSNK2A1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CSNK2A1/CK II alpha protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human CSNK2A1/CK2A1 Protein (GST Tag)(Active)
Sequence:	Met 1-Gln 391
Characteristics:	A DNA sequence encoding the human CSNK2A1 isoform 1 (NP_808227.1) (Met 1-Gln 391) was fused with the GST tag at the N-terminus.
Purity:	> 93 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 9 nmol/min/mg using casein as substrate.

Target Details

Target:	CSNK2A1/CK II alpha (CSNK2A1)
Alternative Name:	CSNK2A1/CK2A1 (CSNK2A1 Products)

Target Details

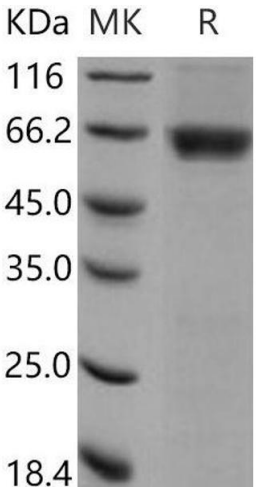
Background:	Background: Casein kinase II subunit alpha, also known as CK II alpha, CSNK2A1 and CK2A1, is a member of the protein kinase superfamily, Ser / Thr protein kinase family and CK2 subfamily. Casein kinase II (CSNK2A1) is a serine / threonine protein kinase that phosphorylates acidic proteins such as casein. This kinase is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. Casein kinase II (CSNK2A1) is a constitutively active, ubiquitously expressed serine / threonine protein kinase that is thought to have a regulatory function in cell proliferation, cell differentiation and apoptosis. CSNK2A1 functions as a tetrameric complex consisting of two regulatory beta-subunits and two catalytic units (alpha and alpha') in a homomeric or heteromeric conformation. Whilst the alpha- and alpha'-subunits are catalytically identical, proteins that regulate CSNK2A1, such as cdc2 and Hsp90, preferentially bind to the alpha and not the alpha'-subunit. CSNK2A1 can phosphorylate a number of key intracellular signaling proteins implicated in tumor suppression (p53 and PTEN) and tumorigenesis (myc, jun, NF-kappaB). CSNK2A1 is also thought to influence Wnt signaling via beta-catenin phosphorylation and the PI 3-K signaling pathway via th phosphorylation of Akt. Synonym: CK2A1,CKII,CSNK2A3
Molecular Weight:	71.4 kDa
NCBI Accession:	NP_808227
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM GSH, pH 8.0
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting
Image 1.

