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Datasheet for ABIN7317052

Casein Kinase 1 gamma 2 Protein (His tag)

1 Image

Overview

Quantity:	50 µg
Target:	Casein Kinase 1 gamma 2 (CSNK1G2)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Casein Kinase 1 gamma 2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CSNK1G2 Protein (His Tag)(Active)
Sequence:	Met 18-Lys 415
Characteristics:	A DNA sequence encoding the mature form of human CSNK1G2 (P78368-1) (Met 18-Lys 415) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 13 nmol/min/mg using casein as substrate.

Target Details

Target:	Casein Kinase 1 gamma 2 (CSNK1G2)
Alternative Name:	CSNK1G2 (CSNK1G2 Products)

Target Details

Background: Background: Casein kinase I gamma 2 isoform (CSNK1G2), a member of the large casein kinase I (CKI) subfamily, protein kinase superfamily. It may affect the development of brain, and associate with vesicular trafficking and neurotransmitter releasing from small synaptic vesicles. The CKI family includes several other isoforms (alpha, beta, gamma, and delta). Dishevelled (Dsh), another positive component of the Wnt pathway, becomes phosphorylated in response to Wnt signals. All the CKI isoforms, with the exception of gamma, increase the phosphorylation of Dsh in vivo. Casein kinase 1 gamma (CK1gamma, or CSNK1G) is associated with the cell membrane and binds to LRP. CK1gamma was found to be needed for Wnt signaling through Wnt receptor LRP. CSNK1G2 inhibits Smad3-mediated TGF-beta responses including induction of target genes and cell growth arrest, and this inhibition is dependent on CSNK1G2 kinase activity. The overexpression of CSNK1G2 in human cancers, may act as an oncoprotein during tumorigenesis. In addition, as an MTA1s-binding protein, CSNK1G2 could further potentiate the estrogen receptor (ER) corepressive function of MTA1s.

Synonym: Casein kinase I isoform gamma-2, CK1G2, CSNK1G2

Molecular Weight: 47.8 kDa

Pathways: [Hedgehog Signaling](#)

Application Details

Restrictions: For Research Use only

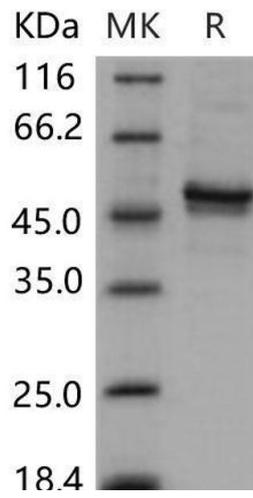
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, 1 mM DTT, 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.