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Datasheet for ABIN7317726

Cyclin E1 Protein (CCNE1) (GST tag, His tag)



Overview

Quantity:	100 μg
Target:	Cyclin E1 (CCNE1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cyclin E1 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human CCNE1/Cyclin-E1 Protein (His & GST Tag)(Active)
Sequence:	Met 1-Ala 410
Characteristics:	A DNA sequence encoding the full length of human CCNE1 isoform 1 (NP_001229.1) (Met 1-Ala 410) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 82 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human HG3C-CCNE1 at 10μ g/ml (100μ l/well) can bind biotinylated human GST-CDK4, The EC50 of biotinylated human GST-CDK4 is 45.0 - 106.0μ ml.

Target Details

Target:	Cyclin E1 (CCNE1)

Target Details

Alternative Name:	CCNE1/Cyclin-E1 (CCNE1 Products)
Background:	Background: Cyclin E1 is a member of the highly conserved cyclin family and belongs to the E-
	type cyclin that functions as a regulator of S phase entry and progression in mammalian cells.
	Cyclin E1 serves as regulatory subunits that bind, activate, and provide substrate for its
	associated cyclin-dependent kinase2 (CDK2), whose activity is essential for cell cycle G1 / S $$
	transition. Over expression of this encoding gene has been found in many tumors, which result
	in chromosome instability and by extension, induce tumorigenesis. This protein was also found
	to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein
	mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression
	and plays a critical role in promoting cell-cycle progression in the absence of pRB. In general,
	cyclin E1, as an activator of phospho-CDK2 (pCDK2), is important for cell cycle progression and
	is frequently overexpressed in cancer cells.
	Synonym: CCNE
Molecular Weight:	75 kDa
NCBI Accession:	NP_001229
Pathways:	Cell Division Cycle, Intracellular Steroid Hormone Receptor Signaling Pathway, Nuclear
	Hormone Receptor Binding, Mitotic G1-G1/S Phases

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, 1 mM GSH, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months