Datasheet for ABIN7317725

Cyclin E1 Protein (CCNE1)

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Overview

Quantity:	100 µg
Target:	Cyclin E1 (CCNE1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human CCNE1/Cyclin-E1 Protein (Active)
Sequence:	Met 1-Ala 410
Characteristics:	A DNA sequence encoding the human CCNE1 (NP_001229.1) (Met 1-Ala 410) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus.
Purity:	> 90 % 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 CCNE1 at 10 µg/ml (100 µl/well) can bind biotinylated human GST-CDK4, The EC50 of biotinylated human GST-CDK4 is 0.55-1.29 µg/ml.

Target Details

Target:	Cyclin E1 (CCNE1)
Alternative Name:	CCNE1/Cyclin-E1 (CCNE1 Products)

Target Details

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 results 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:	47.2 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, 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.