

Datasheet for ABIN7317696

Cyclin A1 Protein (CCNA1) (His tag)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Cyclin A1 (CCNA1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cyclin A1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CCNA1/Cyclin-A1 Protein (His Tag)(Active)
Sequence:	Met 1-Gln 465
Characteristics:	A DNA sequence encoding the full length of human CCNA1 isoform a (NP_003905.1) (Met 1-Gln 465) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. Immobilized human His-CCNA1 at 10 µg/ml (100 µl/well) can bind biotinylated human CDK1. The EC50 of biotinylated human CDK1 is 0.02-0.04 µg/ml. Measured by its binding ability in a functional ELISA. Immobilized human His-CCNA1 at 10 µg/ml (100 µl/well) can bind biotinylated human CDK2-His. The EC50 of biotinylated human CDK2-His is 0.07-0.15 µg/ml.

Target Details

Target:	Cyclin A1 (CCNA1)
Alternative Name:	CCNA1/Cyclin-A1 (CCNA1 Products)
Background:	Background: Cyclin A1 is a member of the highly conserved cyclin family that is characterized by a dramatic periodicity in protein abundance, and belongs to the A-type cyclin subfamily. The mammalian A-type cyclin family consists of two members: cyclin A1 and cyclin A2. Different cyclins exhibit distinct expression. Cyclin A1 is expressed in mice exclusively in the germ cell lineage and high rate of cyclinA1 is found in human testis and certain myeloid leukaemia cells. Cyclin A1 is primarily function in the control of meiosis. It serves as regulator subunits binding to cyclin-dependent kinase 1 (Cdk1) and cyclin-dependent kinase 2 (Cdk2), which give two different kinase activities, one appearing in S phase, the other in G2. Through this, cyclin A1 operate the entry and progression in cell cycle. High frequency of cyclin A1 overexpression has been observed in acute myelocytic leukemias, especially those that are at the promyelocyte and myeloblast stages of development. Synonym: CT146
Molecular Weight:	54.6 kDa
NCBI Accession:	NP_003905
Pathways:	Apoptosis , Cell Division Cycle , AMPK Signaling , Mitotic G1-G1/S Phases , DNA Replication , M Phase , Synthesis of DNA

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, 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.