

Product datasheet

Recombinant human CDK1 + Cyclin B1 protein (Active)  
ab271456

2 Images

Description

<b>Product name</b>	Recombinant human CDK1 + Cyclin B1 protein (Active)	
<b>Biological activity</b>	Specific activity ≥200 pmol/min/μg.  Assay was done in a kinase buffer using Histone H1 (0.1 mg/ml) as a substrate with 20 μM ATP at 30°C for 45 min.	
<b>Purity</b>	≥ 90 % SDS-PAGE. Affinity purified.	
<b>Expression system</b>	Baculovirus infected Sf9 cells	
<b>Accession</b>	<a href="#">P14635</a> <a href="#">P06493</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Amino Acid Sequence 1</b>		
<b>Species</b>	Human	
<b>Sequence</b>	MALRVTRNSK INAENKAKIN MAGAKRVPTA PAATSKPGLR PRTALGDIGN KVSEQLQAKM PMKKEAKPSA TGKVIDKKLP KPLEKVPMLV PVPVSEPVPE PEPEPEPEPV KEEKLSPEPI LVDTASPSM ETSGCAPAEE DLCQAFSDVI LAVNDVDAED GADPNLCSEY VKDIAYLRQ LEEEQAVRPK YLLGREVTGN MRAILDWLV QVQMKFRLQ ETMYMTVSII DRFMQNNCVP KKMLQLVGVT AMFIASKYEE MYPPEIGDFA FVTDNTYTKH QIRQMEMKIL RALNFGLGRP LPLHFLRRAS KIGVDVEQH TLAKYLMELT MLDYDMVHFP PSQIAAG AFC LALKILDNGE WTPTLQHYLS YTEESLLPVM QHLAKNVVMV NQGLTKHMTV KNKYATSKHA KISTLPQLNS ALVQDLAKAV AKV	
<b>Predicted molecular weight</b>	75 kDa including tags	
<b>Amino acids</b>	1 to 433	
<b>Tags</b>	GST tag N-Terminus	

**Additional sequence information** Genbank: NM\_031966

## Amino Acid Sequence 2

**Species** Human

**Sequence** MEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE  
EEGVPSTAIR EISLLKELRH PNVSLQDVL MQDSRLYLIF  
EFLSMDLKKY LDSIPPGQYM DSSLVKSYLY QILQGMFCH  
SRRVLHRDLK PQNLLIDDKG TIKLADFGLA RAFGIPIRVY  
THEVVTWYR SPEVLLGSAR YSTPVDIWSI GTIFAEATK  
KPLFHGDSEI DQLFRIFRAL GTPNNEVWPE  
VESLQDYKNT FPKWKPGSLA SHVKNLDENG  
LDLLSKMLY DPAKRISGKM ALNHPYFNDL DNQIKKM

**Predicted molecular weight** 60 kDa including tags

**Amino acids** 1 to 297

**Tags** GST tag N-Terminus

**Additional sequence information** Genbank: NM\_001786

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab271456** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Liquid

**Additional notes** CDK1/CyclinB1 complex

## Preparation and Storage

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**Stability and Storage** Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 0.05% (R\*,R\*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

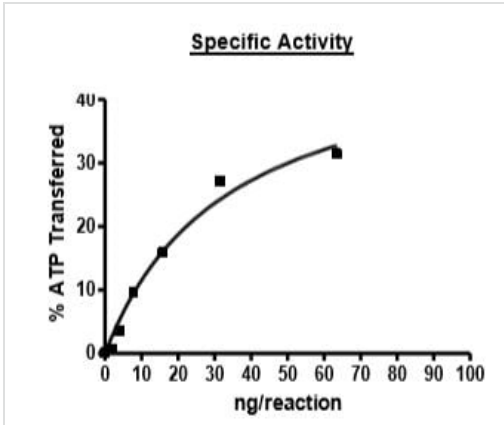
## General Info

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**Cellular localization** CDK1: Nucleus. Cyclin B1: Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > centrosome.

## Images

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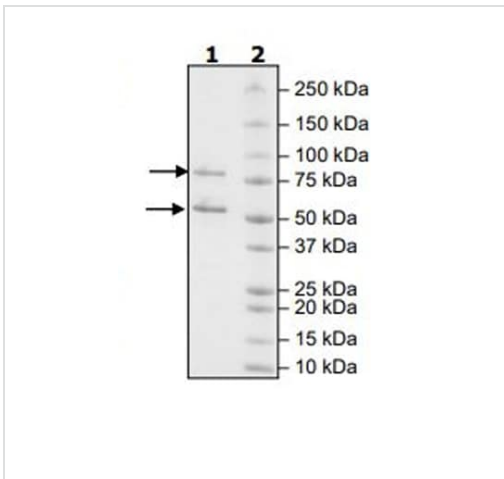


Functional Studies - Recombinant Human CDK1 + Cyclin B1 protein (Tagged) (ab271456)

Functional analysis of ab271456.

Specific activity  $\geq 200$  pmol/min/ $\mu$ g.

Assay was done in a kinase buffer using Histone H1 (0.1 mg/ml) as a substrate with 20  $\mu$ M ATP at 30°C for 45 min.



SDS-PAGE - Recombinant Human CDK1 + Cyclin B1 protein (Tagged) (ab271456)

SDS-PAGE analysis of ab271456.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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