Recombinant Human CDK2&Cyclin A2 Kinase

Catalog No.: RP03309LQ

www.abclonal.com

Sequence Information

Species
Human

Gene ID
1017&890

Swiss Prot
P24941&P20248

Tags
N-GST (CDK2) & N-His (Cyclin A2)

Synonyms
CDK2; CDKN2; Cyclin-dependent kinase 2; Cyclin A2; CCNA2; CCN1; CCNA; Cyclin-A2

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
60.4 kDa/32.8 kDa

Observed MW
50-60 kDa/25-30 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 20 mM HEPES, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

CDK2, also known as cyclin-dependent kinase 2, or cell division protein kinase 2, is a member of the cyclin-dependent kinase family of Ser/Thr protein kinases. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin E or A. Cyclin E binds G1 phase CDK2, which is required for the transition from G1 to S phase while binding with Cyclin A is required to progress through the S phase. Abnormal expression of cyclin A2 is associated with chromosomal instability and tumor proliferation, while inhibition leads to decreased tumor growth. Therefore, CDK2 and its cyclin binding partners represent possible therapeutic targets for new cancer therapeutics.

Basic Information

Description
Recombinant Human CDK2&Cyclin A2 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Leu298 (CDK2) & Glu174-Leu432 (Cyclin A2)) of Human CDK2&CCNA2 (Accession #P24941&P20248) fused with a N-GST (CDK2) & N-His (Cyclin A2) tag.

Activity
The activity of CDK2/Cyclin A2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

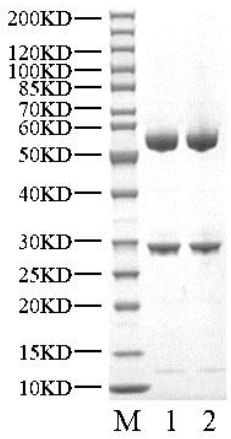
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

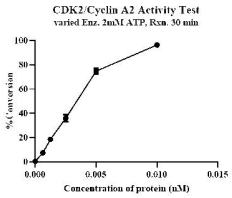
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human CDK2&Cyclin A2 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



The activity of CDK2/Cyclin A2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.