

Recombinant Human CDK2/Cyclin A2, GST-tagged, Active

Cat. No. CDK2/CyclinA2-272H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDK2 and CyclinA2 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins.
Species	Human
Source	Sf9 Cells
Description	CDK2 is a member of the Cyclin-Dependent Kinase family that is ubiquitously expressed. CDK2 is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. CDK2 associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). CDK2 phosphorylates multiple cellular substrates including SMAD3 and FOXO1. Phosphorylation of FOXO1 leads to its inhibition.
Molecular Weight	~58 kDa and CyclinA2 ~78 kDa.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	CDK2 cyclin-dependent kinase 2 [Homo sapiens]CCNA2 cyclin A2 [Homo sapiens]
Synonyms	CDK2; cyclin-dependent kinase 2; p33 protein kinase; cell division kinase 2; cdc2-related protein kinase; EC 2.7.11.22; cell division protein kinase 2;CCNA2; p33(CDK2); cyclin A2; CCN1; CCNA; Cyclin-A; Cyclin-A2
Gene ID	1017890
mRNA Refseq	NM_001798NM_001237
Protein Refseq	NP_001789NP_001228
MIM	116953123835
UniProt ID	P24941P20248
Chromosome Location	12q134q25-q31
Pathway	Cell cycle; Pathways in cancer; ; Progesterone-mediated oocyte maturation; Prostate cancer; Small cell lung cancer; p53 signaling pathway
Function	ATP binding; cyclin-dependent protein kinase activity; histone kinase activity; identical protein binding; nucleotide binding; transferase activity; protein binding

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