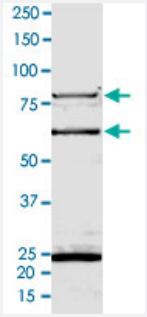
Bioactive

CDC2/CCNB1 (Human) Recombinant Protein

Catalog # P4640 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CDC2 (NP_001777.1, 1 a.a. - 297 a.a.) and CCNB1 (NP_114172.1, 1 a.a.- 433 a.a.) Recombinant protein with GST-His tag expressed in Sf9 cells.
Host	insect
Theoretical MW (kDa)	CCNB1: 63.882 , CCNB
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	GST affinity chromatography
Concentration	0.110 ug/uL

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Activity	66 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CCNB1

Entrez GeneID	891
Protein Accession#	NP_001777.1 (Gene ID : 983);NP_114172.1 (Gene ID : 891)
Gene Name	CCNB1
Gene Alias	CCNB
Gene Description	cyclin B1
Omim ID	123836
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product co mplexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcript s have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that i s expressed predominantly during G2/M phase. The different transcripts result from the use of alte rnate transcription initiation sites. [provided by RefSeq
Other Designations	G2/mitotic-specific cyclin B1

Gene Info — CDC2

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Entrez GeneID	983
Protein Accession#	NP_001777.1 (Gene ID : 983);NP_114172.1 (Gene ID : 891)
Gene Name	CDC2
Gene Alias	CDC28A, CDK1, DKFZp686L20222, MGC111195
Gene Description	cell division cycle 2, G1 to S and G2 to M
Omim ID	116940
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting f actor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitot ic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phos phorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for thi s gene. [provided by RefSeq
Other Designations	OTTHUMP00000019660|cell cycle controller CDC2|cell division control protein 2 homolog|cell div ision cycle 2 protein|cyclin-dependent kinase 1|p34 protein kinase

Pathway

- Cell cycle
- Cell cycle
- Gap junction
- p53 signaling pathway
- p53 signaling pathway

Disease

- Adenocarcinoma
- Alzheimer disease
- Breast cancer

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- Breast Neoplasms
- Dementia
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Lung Neoplasms
- Ovarian Neoplasms
- Pulmonary Disease

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