Active Recombinant Human Cyclin A2, GST-tagged

Cat. No. CCNA2-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CCNA2 (NM_001237) full-length recombinant protein with GST tag expressed in SF9 cells.
Species	Human
Source	Human
Description	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. In contrast to cyclin A1, which is present only in germ cells, this cyclin is expressed in all tissues tested. This cyclin binds and activates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S and G2/M transitions.
Theoretical MW (kDa)	58, 78
Preparation Method	Insect cell (SF9) expression system
Purity	> 70% by densitometry
Activity	The specific activity of was determined to be 822 nmol /min/mg as per Activity Assay Protocol.

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Application	SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P20248

GENE INFORMATION

Gene Name	CCNA2 cyclin A2 [Homo sapiens]
Official Symbol	CCNA2
Synonyms	CCNA; CCNA2; CCN1; cyclin-A2; cyclin-A; OTTHUMP00000164087
Gene ID	890
mRNA Refseq	NM_001237
Protein Refseq	NP_001228
MIM	123835
Chromosome Location	4q25-q31
Pathway	APC/C-mediated degradation of cell cycle proteins; ATF-2 transcription factor network; B Cell Receptor Signaling Pathway; Cell Cycle, Mitotic; Cell cycle; Cyclin A/B1 associated events during G2/M transition; Cyclin A:Cdk2-associated events at S phase entry; DNA Replication; E2F transcription factor network; G1/S Transition;

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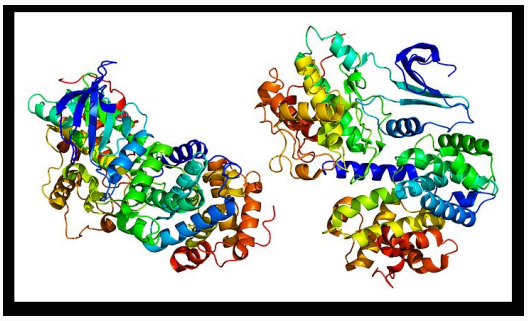
	G2/M Transition; IL2 signaling events mediated by STAT5; Id Signaling Pathway; Orc1 removal from chromatin; Progesterone-mediated oocyte maturation; Regulation of APC/C activators between G1/S and early anaphase
Function	protein binding; protein kinase binding
PDB rendering based on1e9h.	

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