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# Recombinant human Cyclin A2 protein

Catalog Number: ATGP1575

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-432aa

#### UniProt No.

P20248

#### **NCBI Accession No.**

NP 001228.1

#### **Alternative Names**

Cyclin A2, CCN1, CCNA

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

51.1 kDa (456aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.15M NaCl, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CCNA2 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. Recombinant human CCNA2 protein, fused to His-tag at N-terminus, was expressed in E.



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coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

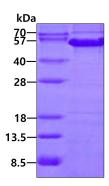
<MGSSHHHHHH SSGLVPRGSH MGSH>MLGNSA PGPATREAGS ALLALQQTAL QEDQENINPE KAAPVQQPRT RAALAVLKSG NPRGLAQQQR PKTRRVAPLK DLPVNDEHVT VPPWKANSKQ PAFTIHVDEA EKEAQKKPAE SQKIEREDAL AFNSAISLPG PRKPLVPLDY PMDGSFESPH TMDMSIVLED EKPVSVNEVP DYHEDIHTYL REMEVKCKPK VGYMKKQPDI TNSMRAILVD WLVEVGEEYK LQNETLHLAV NYIDRFLSSM SVLRGKLQLV GTAAMLLASK FEEIYPPEVA EFVYITDDTY TKKQVLRMEH LVLKVLTFDL AAPTVNQFLT QYFLHQQPAN CKVESLAMFL GELSLIDADP YLKYLPSVIA GAAFHLALYT VTGQSWPESL IRKTGYTLES LKPCLMDLHQ TYLKAPQHAQ QSIREKYKNS KYHGVSLLNP PETLNL

#### **General References**

Alvarez-Fernandez, M., et al. (2011) J. Biol. Chem. 286 (38), 33029-33036 Kim, D.H., et al. (2011) Cancer 117 (17), 4080-4091

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

