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.

coli and purified by using conventional chromatography techniques.

Amino acid Sequence

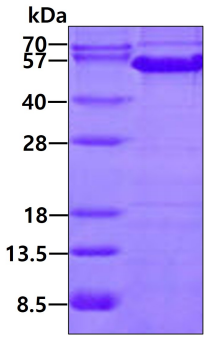
<MGSSHHHHHH SSGLVPRGSH MGSH>MLGNSA PGPATREAGS ALLALQQTAL QEDQENINPE KAAPVQQPRT RAALAVLKSG NPRGLAQQQR PKTRRVAPLK DLPVNDEHVT VPPWKANSKQ PAFTIHVDEA EKEAQKKPAE SQKIEREDAL AFNSAISLPG PRKPLVPLDY PMDGSFESPH TMDMSIVLED EKPVSVNEVP DYHEDIHTYL REMEVKCKPK VGYMKKQPDI TNSMRAILVD WLVEVGEEYK LQNETLHLAV NYIDRFLSSM SVLRGKLQLV 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.