Recombinant human CCND2 protein

Catalog Number: ATGP1342

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-289aa

UniProt No.
P30279

NCBI Accession No.
NP_001750

Alternative Names
Cyclin D2, KIAK0002, MGC102758, G1/S-specific cyclin-D2

PRODUCT SPECIFICATION

Molecular Weight
35.6 kDa (313aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 1M urea.

Purity
> 85% 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
CCND2 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. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. High level expression of this protein was

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observed in ovarian and testicular tumors. Recombinant human CCND2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

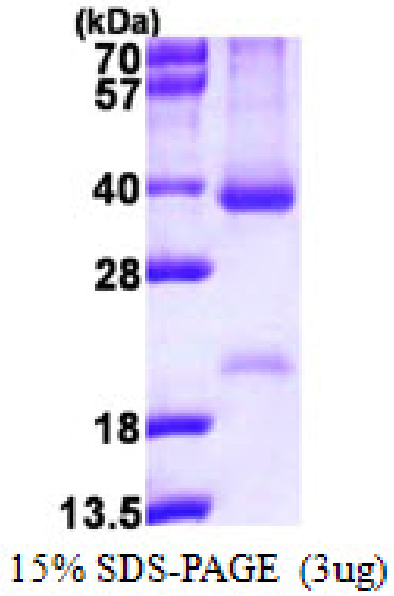
MGSSHHHHHH SSGLVPRGSH MGSHMELLCH EVDPVRRAVR DRNLLRDDRV LQNLLTIEER YLPQCSYFKC VQKDIQPYMR RMVATWMLEV CEEQKCEEEV FPLAMNYLDR FLAGVPTPKS HLQLLGAVCM FLASKLKETS PLTAEKLCIY TDNSIKPQEL LEWELVVLGK LKWNLAAVTP HDFIEHILRK LPQQREKLSL IRKHAQTFIA LCATDFKFAM YPPSMIATGS VGAAICGLQQ DEEVSSLTCD ALTELLAKIT NTDVDCLKAC QEQIEAVLLN SLQQYRQDQR DGSKSEDELD QASTPTDVRD IDL

General References

Inaba T., et al. (1992) Genomics. 13(3):565-74.
Wang Z., et al. (2008) Cell Struct Funct. 33(2):171-83.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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