

Recombinant Full Length Human CCND2 Protein, GST-tagged

Cat. No. CCND2-2969HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CCND2 full-length ORF (NP_001750.1, 1 a.a. - 289 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	289 amino acids
Description	<p>The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout 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 CDK4 or CDK6 and functions as a regulatory subunit of the complex, 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. Knockout studies of the homologous gene in mouse suggest the essential roles of this gene in ovarian granulosa and germ cell proliferation. High level expression of this gene was observed in ovarian and testicular tumors. Mutations in this gene are associated with megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 3 (MPPH3). [provided by RefSeq, Sep 2014]</p>
Molecular Mass	59.5 kDa
AA Sequence	MELLCHEVDPVRRRAVRDRNLLRDDRVLQNLLETIERYLPQCSYFKCVQKDIQPYMR

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RMVATWMLEVCEEQKCEEEVFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKL
 KETSPLTAEKLCIYTDNSIKPQELLEWELVVLGKLLKWNLAAVTPHDFIEHILRKLPQQR
 EKLSLIRKHAQTFIALCATDFKFKAMYPPSMIATGSVGAICGLQQDEEVSSLTCDALT
 ELLAKITNTDVDCLKACQEIEAVLLNSLQQYRQDQRDGSKSEDELQASTPTDVRD
 IDL

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name CCND2 cyclin D2 [Homo sapiens]

Official Symbol CCND2

Synonyms CCND2; cyclin D2; G1/S-specific cyclin-D2; G1/S specific cyclin D2; G1/S-specific cyclin D2; KIAK0002; MGC102758;

Gene ID 894

mRNA Refseq NM_001759

Protein Refseq NP_001750

MIM 123833

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UniProt ID

P30279

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