CCND2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CCND2, Polyclonal Antibody
Full Product Name	CCND2 Conjugated Antibody
Product Gene Name	anti-CCND2 antibody
Product Synonym Names	cyclin D2; KIAK0002
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total CCND2 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	50.9 kDa (457aa)
OMIM	123836
3D Structure	ModBase 3D Structure for P14635
Immunogen	Synthetic peptide corresponding to a region derived from 264-279 amino acids of Human cyclin D2
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CCND2 antibody	Most Applications
Application Notes for anti-CCND2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CCND2 antibody	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. 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 suY0ressor 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.
Other Notes	Small volumes of anti-CCND2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CCND2 purchase	MBS9442354 is an antibody targeting CCND2. Also known as CCND2 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCND2. It may not necessarily be applicable to this product.

NCBI GI #	14327896
NCBI GeneID	891
NCBI Accession #	NP_114172
UniProt Primary Accession #	P14635
UniProt Secondary Accession #	Q5TZP9; A8K066
UniProt Related Accession #	P14635
GenBank Nucleotide #	NM_031966.3
NCBI Official Full Name	G2/mitotic-specific cyclin-B1 isoform 1
NCBI Official Synonym Full Names	cyclin B1
NCBI Official Symbol	CCNB1
NCBI Official Synonym Symbols	CCNB
UniProt Protein Name	G2/mitotic-specific cyclin-B1
Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCNB1
UniProt Synonym Gene Names	CCNB
UniProt Entry Name	CCNB1_HUMAN
NCBI Protein Information	G2/mitotic-specific cyclin-B1
NCBI Summary for CCND2	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product complexes with p34(cdc2) to form the maturation-promoting factor (MPF). The encoded protein is necessary for proper control of the G2/M transition phase of the cell cycle. [provided by RefSeq, Aug 2017]

UniProt Comments for CCND2	CCNB1: a member of 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. Complexes with cdc2 to form the maturation-promoting factor (MPF). Two alternatively spliced isoforms have been found, a constitutively expressed form and a cell cycle-regulated form that is expressed predominantly during G2/M phase. Protein type: Activator; Cell cycle regulation Chromosomal Location of Human Ortholog: 5q12 Cellular Component: nucleoplasm; spindle pole; centrosome; membrane; cytoplasm; cytosol; nucleus Molecular Function: protein binding; patched binding; histone kinase activity; protein kinase binding Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; positive regulation of histone phosphorylation; regulation of cell cycle; ventricular cardiac muscle cell development; positive regulation of attachment of spindle microtubules to kinetochore; mitotic nuclear envelope disassembly; positive regulation of mRNA 3'-end processing; positive regulation of mitotic cell cycle; positive regulation of fibroblast proliferation; negative regulation of protein amino acid phosphorylation; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; tissue regeneration; protein complex assembly; G2/M transition of mitotic cell cycle; positive regulation of cardiac muscle cell proliferation; response to drug; in utero embryonic development; oocyte maturation; mitotic metaphase plate congression; response to DDT; gut development; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; response to mechanical stimulus; cell division; spermatogenesis; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; mitotic spindle stabilization; G1/S transition of mitotic cell cycle
Research Articles on CCND2	**1.** Data show that Islet-1 (ISL1) activated the expression of cyclin B1 (CCNB1), cyclin B2 (CCNB2) and c-myc (c-MYC) genes by binding to the conserved binding sites on their promoters or enhancers.
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