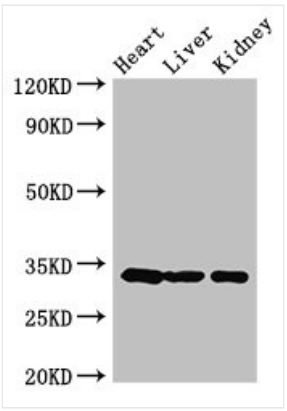
CCND2 Antibody – Rabbit Polyclonal

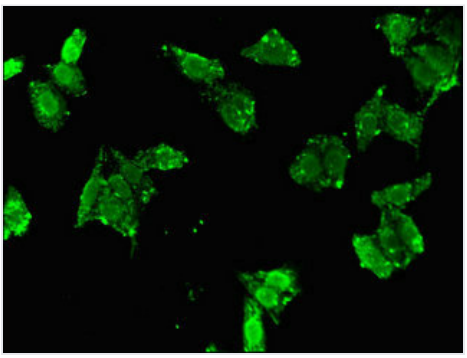
PRODUCT OVERVIEW

Product Name	CCND2, Polyclonal Antibody
Full Product Name	CCND2 Antibody
Product Gene Name	anti-CCND2 antibody
Product Synonym Names	G1/S-specific cyclin-D2; CCND2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: CCND2 (MBS7047829) HRP Conjugated Antibody: CCND2 (MBS7047830)
Matching Pairs	Unconjugated Antibody: CCND2 (MBS7047829) FITC Conjugated Antibody: CCND2 (MBS7047831)
Matching Pairs	Unconjugated Antibody: CCND2 (MBS7047829) Biotin Conjugated Antibody: CCND2 (MBS7047832)
OMIM	M90813 mRNA
3D Structure	ModBase 3D Structure for P30279
Immunogen	Recombinant Human G1/S-specific cyclin-D2 protein (215-285AA)
Storage Buffer	Preservative: 0.03%, Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Immunogen Species	Homo sapiens (Human)
Research Area	Cell Biology
Target Names	CCND2
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-181 / sc-754
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CCND2 antibody	ELISA (EIA), Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-CCND2 antibody	WB: 1:500-1:5000 IF: 1:50-1:200
Related Product Information for anti-CCND2 antibody	MBS7047829 is an antibody targeting CCND2. Also known as CCND2 Antibody. Reactive in Human, Mouse. Host: Rabbit.

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.



Western Blot (WB) of anti-CCND2 antibody
Western BlotPositive WB detected in:Mouse heart tissue,Mouse liver tissue,Mouse kidney tissueAll lanes: CCND2 antibody at 3.5ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 34,25 kDaObserved band size: 34 kDa



Immunofluorescence (IF) of anti-CCND2 antibody
Immunofluorescent analysis of HepG2 cells using MBS7047829 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

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

NCBI GI #	4502617
NCBI GeneID	894
NCBI Accession #	NP_001750.1
UniProt Primary Accession #	P30279
UniProt Secondary Accession #	Q13955; Q5U035; A8K531
UniProt Related Accession #	P30279
GenBank Nucleotide #	NM_001759.3
NCBI Official Full Name	G1/S-specific cyclin-D2
NCBI Official Synonym Full Names	cyclin D2
NCBI Official Symbol	CCND2
NCBI Official Synonym Symbols	MPPH3; KIAK0002
UniProt Protein Name	G1/S-specific cyclin-D2
Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCND2
UniProt Entry Name	CCND2_HUMAN
NCBI Protein Information	G1/S-specific cyclin-D2

NCBI Summary for CCND2	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 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]
UniProt Comments for CCND2	CCND2: Regulatory component of the cyclin D2-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D2/CDK4/p27Kip1, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Interacts with either CDK4 or CDK6 protein kinase to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Component of the ternary complex cyclin D/CDK4/p27Kip1 required for nuclear translocation and modulation of CDK4-mediated kinase activity. Belongs to the cyclin family. Cyclin D subfamily. Protein type: Cell cycle regulation; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 12p13 Cellular Component: chromatin; cyclin-dependent protein kinase holoenzyme complex; cytosol; nuclear membrane; nucleolus; nucleoplasm; nucleus Molecular Function: protein binding; protein kinase binding Biological Process: negative regulation of apoptosis; positive regulation of cell proliferation; positive regulation of cyclin-dependent protein kinase activity; positive regulation of protein amino acid phosphorylation Disease: Megalencephaly-polymicrogyria-polydactyly-hydrocephalus Syndrome 3
Research Articles on CCND2	**1.** miR-155 overexpression plays a promoting role in the proliferative, migratory and invasive behavior of OSCC cells. Its effects on OSCC are possibly associated with its regulation of the BCL6/cyclin D2 axis.
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