# CCND3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CCND3, Polyclonal Antibody |
| **Full Product Name** | CCND3 Polyclonal Antibody |
| **Product Gene Name** | anti-CCND3 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| **Purity/Purification** | Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 9kDa; 22kDa; 24kDa; 32kDa |
| **OMIM** | 123834 |
| **3D Structure** | ModBase 3D Structure for P30281 |
| **Immunogen** | Recombinant protein of human CCND3 (NP_001751.1). |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CCND3 antibody** | Western Blot (WB) |
| **Application Notes for anti-CCND3 antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-CCND3 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 activtiy 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. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. |
| **Other Notes** | Small volumes of anti-CCND3 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 CCND3 purchase** | MBS8566183 is an antibody targeting CCND3. Also known as CCND3 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCND3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 209862835 |
| **NCBI GeneID** | 896 |

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| **NCBI Accession #** | NP_001129489.1 |
| **UniProt Primary Accession #** | P30281 |
| **UniProt Related Accession #** | P30281 |
| **GenBank Nucleotide #** | NP_001129489.1 |
| **NCBI Official Full Name** | G1/S-specific cyclin-D3 isoform 1 |
| **NCBI Official Synonym Full Names** | cyclin D3 |
| **NCBI Official Symbol** | CCND3 |
| **UniProt Protein Name** | G1/S-specific cyclin-D3 |
| **Protein Family** | G1/S-specific cyclin |
| **UniProt Gene Name** | CCND3 |
| **UniProt Entry Name** | CCND3_HUMAN |
| **NCBI Protein Information** | G1/S-specific cyclin-D3 |
| **UniProt Comments for CCND3** | CCND3: Regulatory component of the cyclin D3-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 D3/CDK4/p27Kip1, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Interacts with the CDK4 and CDK6 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Interacts with ATF5. Interacts with EIF3K. Component of the ternary complex cyclin D/CDK4/p27Kip1 required for nuclear translocation and modulation of CDK4-mediated kinase activity. Can form similar complexes with either p21Cip1 or CDKN2A. Belongs to the cyclin family. Cyclin D subfamily. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Cell cycle regulation; Activator; Nuclear receptor co-regulator<br><br>Chromosomal Location of Human Ortholog: 6p21<br><br>Cellular Component: membrane; cytoplasm; cyclin-dependent protein kinase holoenzyme complex; nucleus<br><br>Molecular Function: protein binding; cyclin-dependent protein kinase activity; protein kinase binding<br><br>Biological Process: T cell proliferation; positive regulation of cyclin-dependent protein kinase activity; cell division; positive regulation of protein amino acid phosphorylation; cell cycle; signal transduction |
| **Research Articles on CCND3** | **1.** Cyclin D3 expression is regulated by Hes3 in lung cancer cells. |
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