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# Cyclin D3 Antibody

Rabbit mAb
Catalog # AP90828

## Product Information

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|---|---|
| **Application** | WB, IF, FC, ICC |
| **Primary Accession** | P30281 |
| **Reactivity** | Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | CCND 3; Ccnd3; CyclinD3; D3 type cyclin; G1 S specific cyclin D3; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 32520 |

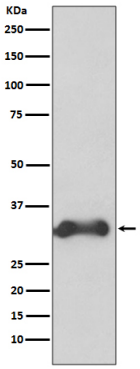
## Additional Information

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|---|---|
| **Dilution** | WB 1:1000~1:2000 ICC/IF 1:50~1:200 FC 1:30 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human Cyclin D3 |
| **Description** | 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 G1/S transition. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

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|---|---|
| **Name** | CCND3 {ECO:0000303\|PubMed:1386336, ECO:0000312\|HGNC:HGNC:1585} |
| **Function** | 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 (PubMed:8114739). 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 (PubMed:8114739). Hypophosphorylates RB1 in early G(1) phase (PubMed:8114739). Cyclin D- CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals (PubMed:8114739). Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed:16782892). Shows transcriptional coactivator activity with ATF5 independently of CDK4 (PubMed:15358120). |
| **Cellular Location** | Nucleus. Cytoplasm |

## Images




Western blot analysis of Cyclin D3 expression in K562 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.