

# Cyclin D3 Recombinant Rabbit mAb

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Catalog # AP94353

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant
<b>Physical State</b>	Liquid
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Nucleus. Cytoplasm. Membrane. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members.
<b>SIMILARITY</b>	Belongs to the cyclin family. Cyclin D subfamily. Contains 1 cyclin N-terminal domain.
<b>SUBUNIT</b>	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/CDKN1B required for nuclear translocation and modulation of CDK4-mediated kinase activity. Can form similar complexes with either CDKN1A or CDKN2A.
<b>Post-translational modifications</b>	Polyubiquitinated by the SCF(FBXL2) complex, leading to proteasomal degradation.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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 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. [provided by RefSeq, Oct 2008].

## Additional Information

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<b>Target/Specificity</b>	
<b>Dilution</b>	WB=1:500-1:2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=0
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

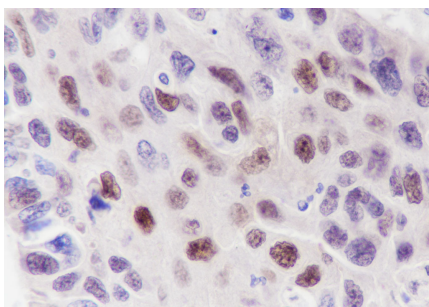
## Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

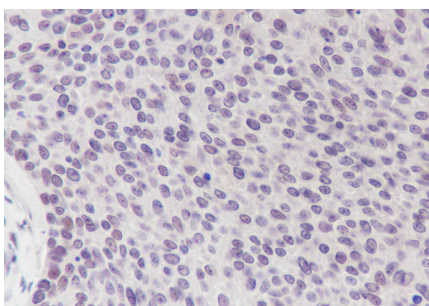
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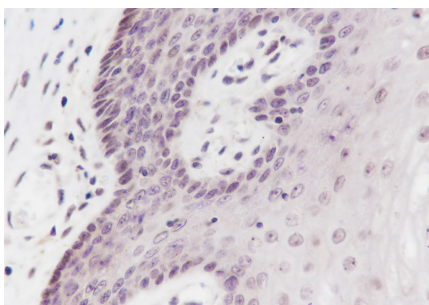
## Images



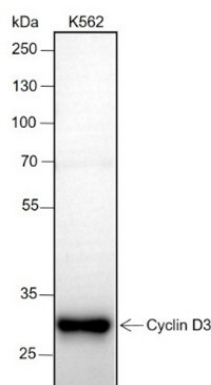
Tissue: Human lung squamous carcinoma Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94353



Tissue: Human cervical carcinoma Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:50 Primary incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94353



Tissue: Human cervix Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:50 Primary ab incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94353



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: 2 hours at room temperature Lysate: K562 Protein loading quantity: 20 µg Exposure time: 30 s Predicted MW: 33 kDa Observed MW: 33 kDa