

# Product Datasheet

## Cyclin D1 Antibody (PD01-64)

### NBP3-32236

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 8/7/2025 v.20.1

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**NBP3-32236**

Cyclin D1 Antibody (PD01-64)

**Product Information**

<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	PD01-64
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH7.4), 0.1% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	34 kDa

**Product Description**

<b>Host</b>	Rabbit
<b>Gene ID</b>	595
<b>Gene Symbol</b>	CCND1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant protein within Human Cyclin D1 aa 200-295 (C terminal). (Uniprot: P24385)

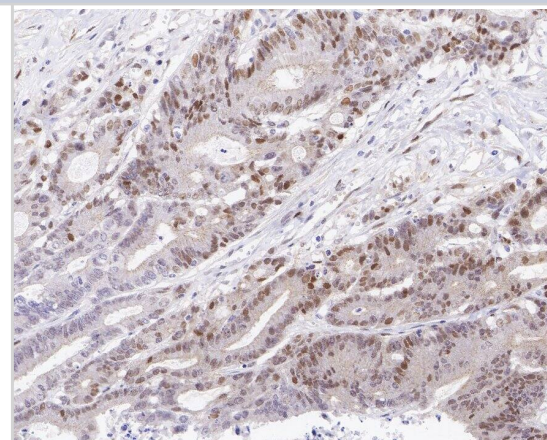
**Product Application Details**

<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:5000, Flow Cytometry 1:5000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:2000, Immunohistochemistry-Paraffin 1:200

**Images**

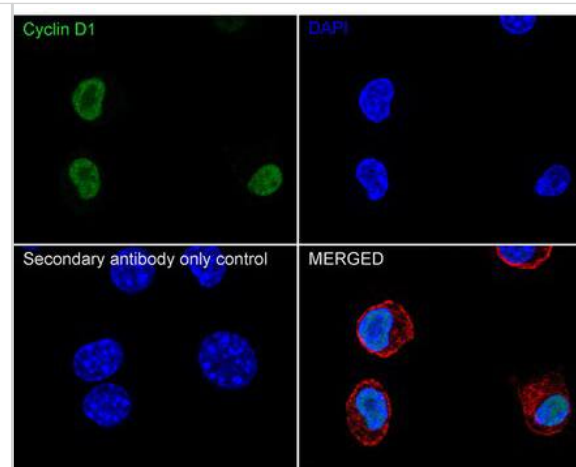
Immunohistochemistry: Cyclin D1 Antibody (PD01-64) [NBP3-32236] - Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-Cyclin D1 antibody (NBP3-32236) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32236) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Immunocytochemistry/ Immunofluorescence: Cyclin D1 Antibody (PD01-64) [NBP3-32236]** - Immunocytochemistry analysis of Neuro-2a cells labeling Cyclin D1 with Rabbit anti-Cyclin D1 antibody (NBP3-32236) at 1/2,000 dilution.

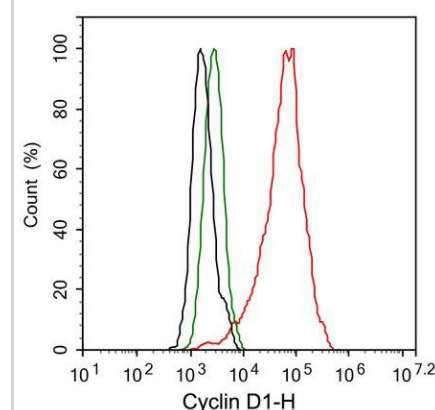
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Cyclin D1 antibody at 1/2,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



Beta tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

**Flow Cytometry: Cyclin D1 Antibody (PD01-64) [NBP3-32236]** - Flow cytometric analysis of MCF7 cells labeling Cyclin D1.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32236, red) at 1/5,000 dilution, compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with an iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabeled sample was used as a control (cells without incubation with primary antibody; black).



**Western Blot: Cyclin D1 Antibody (PD01-64) [NBP3-32236]** - Western blot analysis of Cyclin D1 on different lysates with Rabbit anti-Cyclin D1 antibody (NBP3-32236) at 1/5,000 dilution.

Lane 1: MCF7 cell lysate  
Lane 2: K-562 cell lysate (negative)  
Lane 3: A431 cell lysate  
Lane 4: Neuro-2a cell lysate  
Lane 5: NIH/3T3 cell lysate  
Lane 6: C6 cell lysate  
Lane 7: SH-SY5Y cell lysate

Lysates/proteins at 20 µg/Lane.

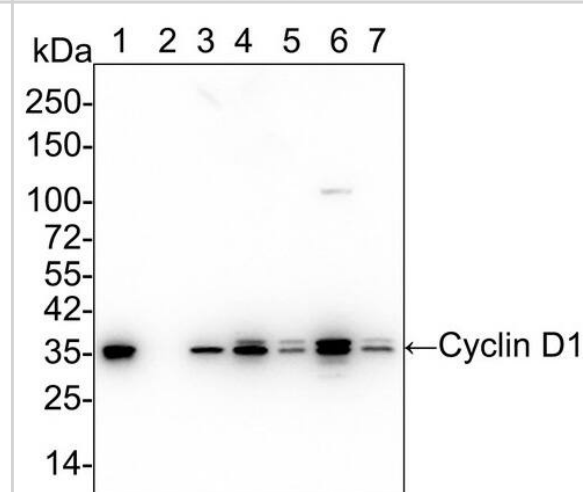
Predicted band size: 34 kDa

Observed band size: 35 kDa

Exposure time: 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/5,000 dilution was used in 5% NFDM/TBST at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.





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### **Products Related to NBP3-32236**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00000595-P01-10ug	Recombinant Human Cyclin D1 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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