

# [KO Validated] Cyclin D1 Rabbit mAb

Catalog No.: A19038   **KO Validated**   **Recombinant**   **130 Publications**

## Basic Information

### Observed MW

34kDa/36kDa

### Calculated MW

34kDa

### Category

Primary antibody

### Applications

WB, IF/ICC, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### Clone/No. number

ARC0300

## Background

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout 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 tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of human cancers.

## Recommended Dilutions

**WB**                    1:1000 - 1:5000

**IF/ICC**                1:100 - 1:800

**ELISA**                Recommended starting concentration is 1  $\mu$ g/mL.  
Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

595

### Swiss Prot

P24385

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

BCL1; PRAD1; U21B31; D11S287E; D1

## Contact

	400-999-6126
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	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

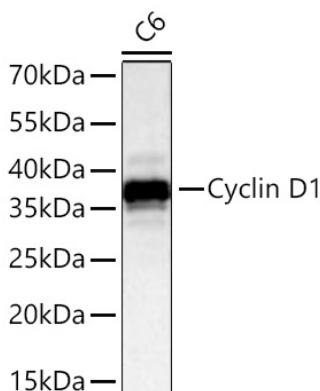
Affinity purification

### Storage

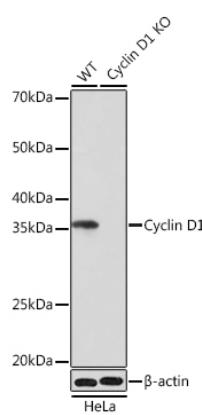
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

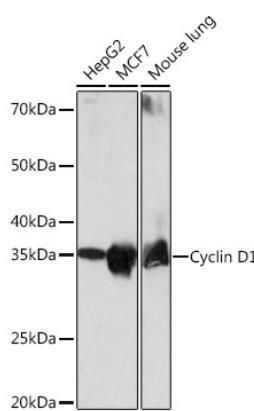
## Validation Data



Western blot analysis of lysates from C6 cells using [KO Validated] Cyclin D1 Rabbit mAb (A19038) at 1:5000 dilution incubated at room temperature for 1.5 hours.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25  $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 20s.

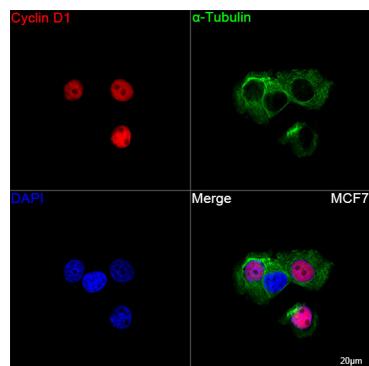


Western blot analysis of lysates from wild type (WT) and Cyclin D1 knockout (KO) HeLa cells, using [KO Validated] Cyclin D1 Rabbit mAb (A19038) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25  $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1min.

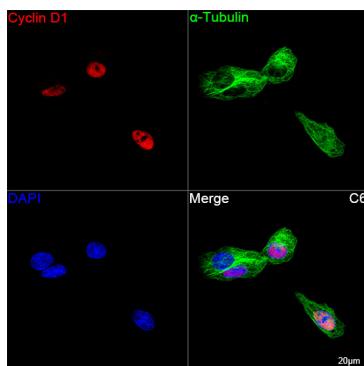


Western blot analysis of various lysates using [KO Validated] Cyclin D1 Rabbit mAb (A19038) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25  $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1min.

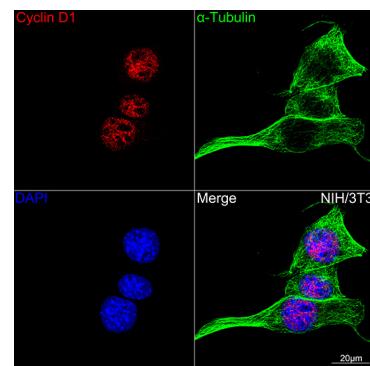
## Validation Data



Confocal imaging of MCF7 cells using [KO Validated] Cyclin D1 Rabbit mAb (A19038, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells using [KO Validated] Cyclin D1 Rabbit mAb (A19038, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells using [KO Validated] Cyclin D1 Rabbit mAb (A19038, dilution 1:100)(Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.