

# Cyclin D1 Polyclonal Antibody

| Product Details    |  |
|--------------------|--|
| Size               | 500 µL   |
| Species Reactivity | Human, Mouse, Rat  |
| Published Species  | Human, Mouse   |
| Host/Isotype       | Rabbit / IgG   |
| Class              | Polyclonal   |
| Type               | Antibody   |
| Conjugate          | Unconjugated   |
| Immunogen          | A synthetic peptide derived from the C-terminal of human cyclin D1 |
| Form               | Liquid   |
| Concentration      | 1 mg/mL  |
| Purification       | Protein A  |
| Storage buffer     | PBS, pH 7.4, with 0.2% BSA   |
| Contains           | 0.09% sodium azide   |
| Storage Conditions | 4° C   |
| RRID               | AB_10982802  |

| Applications                              | Tested Dilution | Publications   |
|---|-----------------|----------------|
| Western Blot (WB)                         | 4-6 µg/mL       | 2 Publications |
| Immunohistochemistry (IHC)                | -               | 1 Publication  |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:20            | -              |
| Immunocytochemistry (ICC)                 | 2 µg/mL         | -              |
| Immunofluorescence (IF)                   | 2 µg/mL         | -              |
| Immunoprecipitation (IP)                  | 10 µg/mL        | -              |
| Miscellaneous PubMed (Misc)               | -               | 1 Publication  |

## Product Specific Information

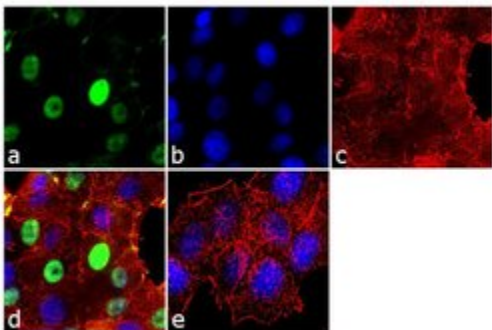
PA5-16607 targets Cyclin D1/Bcl-1 in immunofluorescence, immunoprecipitation, and Western blot applications and shows reactivity with mouse, Rat, and Human samples.

The PA5-16607 immunogen is a synthetic peptide derived from the C-terminal of human cyclin D1.

## Product Images For Cyclin D1 Polyclonal Antibody

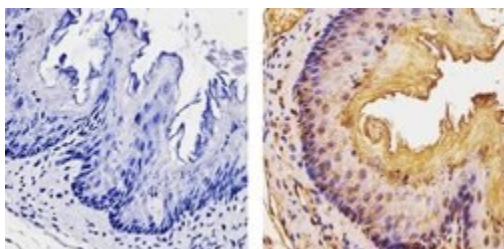
### Cyclin D1 Antibody (PA5-16607) in IF

Immunofluorescence analysis of Cyclin D1 / Bcl-1 was performed using 70% confluent log phase MCF-7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cyclin D1 / Bcl-1 Rabbit Polyclonal Antibody (Product # PA5-16607) at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



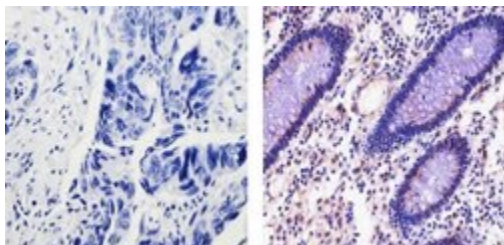
### Cyclin D1 Antibody (PA5-16607) in IHC (P)

Immunohistochemistry analysis of Cyclin D1/Bcl-1 showing staining in the cytoplasm and nucleus of paraffin-embedded mouse esophagus tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a Cyclin D1/Bcl-1 Rabbit Polyclonal Antibody (Product # PA5-16607) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



### Cyclin D1 Antibody (PA5-16607) in IHC (P)

Immunohistochemistry analysis of Cyclin D1/Bcl-1 showing staining in the cytoplasm and nucleus of paraffin-embedded human colon carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a Cyclin D1/Bcl-1 Rabbit Polyclonal Antibody (Product # PA5-16607) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



[View more figures on thermofisher.com](https://www.thermofisher.com)

## 4 References

### Western Blot (2)

Molecular endocrinology (Baltimore, Md.)

#### Estrogen receptors 1 and 2 have opposing roles in regulating proliferation and bone metastasis genes in the prostate cancer cell line PC3.

"PA5-16607 was used in western blot to study the tumor suppressing activity of ER-beta1 and the tumor promoting activity of ER-beta2 in prostate cancer cells"

Authors: Dey P,Jonsson P,Hartman J,Williams C,Ström A,Gustafsson JÅ

**Species**  
Human

**Dilution**  
1:200-1:1000

**Year**  
2012

EMBO molecular medicine

#### Consequence of the tumor-associated conversion to cyclin D1b.

"PA5-16607 was used in western blot to determine the tumor-associated conversion to cyclin D1b consequences"

Authors: Augello MA,Berman-Booty LD,Carr R,Yoshida A,Dean JL,Schiewer MJ,Feng FY,Tomlins SA,Gao E,Koch WJ, Benovic JL,Diehl JA,Knudsen KE

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2015

### Immunohistochemistry (1)

PloS one

#### The p53 inhibitor MDM2 facilitates Sonic Hedgehog-mediated tumorigenesis and influences cerebellar foliation.

"PA5-16607 was used in immunohistochemistry to investigate the effect of MDM2 on cerebellar foliation and tumor formation"

Authors: Malek R,Matta J,Taylor N,Perry ME,Mendrysa SM

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2011

### Miscellaneous PubMed (1)

Oncogene

#### Janus kinase 2 is required for the initiation but not maintenance of prolactin-induced mammary cancer.

"PA5-16607 was used in immunocytochemistry to explore the contribution of Jak2/Stat5 signaling during mammary cancer initiation and progression"

Authors: Sakamoto K,Triplett AA,Schuler LA,Wagner KU

**Species**  
Mouse

**Dilution**  
1:250

**Year**  
2010

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