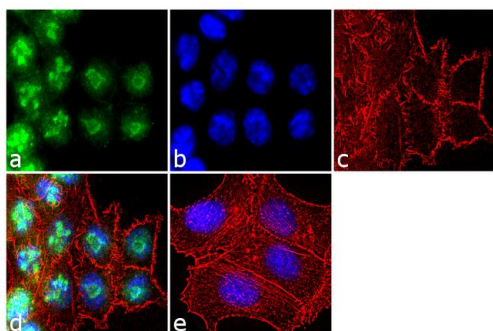


# PLK1 Monoclonal Antibody (36-298)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	36-298
Conjugate	Unconjugated
Immunogen	Full-length human Plk1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533336

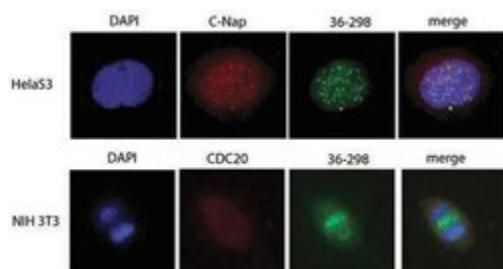
Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	-
Immunocytochemistry (ICC)	Assay Dependent	-
Immunofluorescence (IF)	Assay Dependent	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunoprecipitation (IP)	Assay Dependent	2 Publications
Western Blot (WB)	Assay Dependent	4 Publications
Immunohistochemistry (IHC)	-	2 Publications
in situ PLA (PLA)	-	1 Publication

## Product Images For PLK1 Monoclonal Antibody (36-298)



### PLK1 Antibody (37-7100) in IF

Immunofluorescence analysis of PLK-1 was done on 70% confluent log phase HCT 116 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 PLK1 (36-298) Mouse Monoclonal Antibody (Product # 37-7100) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at 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 is a merged image showing nuclear localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.

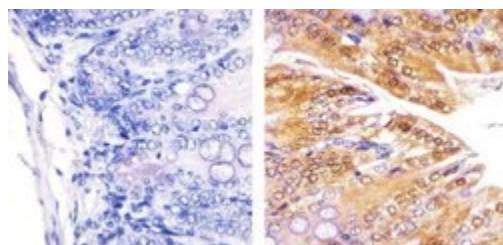


### PLK1 Antibody (37-7100) in IF

Immunofluorescent staining of (top row) HeLa S3 and (bottom row) NIH 3T3 cells using Ms anti-PLK-1 (Product # 37-7100). Image courtesy of Dr. Erich Nigg, Max-Planck Institut für Biochemie, Germany.

### PLK1 Antibody (37-7100) in IHC (P)

Immunohistochemistry analysis of PLK1 showing staining in the cytoplasm and nucleus of paraffin-embedded mouse colon 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 Anti- PLK1 Monoclonal Antibody (36-298) (Product # 37-7100) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°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)

## 11 References

### Western Blot (4)

Journal of cancer science and therapy

#### Separase Inhibitor Sepin-1 Inhibits Foxm1 Expression and Breast Cancer Cell Growth.

"37-7100 was used in Western Blotting to report that Sepin-1 hinders growth of breast cancer cells, cell migration, and wound healing."

Authors: Zhang N, Pati D

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

The Journal of biological chemistry

#### Phosphorylation of PP1 Regulator Sds22 by PLK1 Ensures Accurate Chromosome Segregation.

"Published figure using PLK1 monoclonal antibody (Product # 37-7100) in Immunoprecipitation"

Authors: Duan H, Wang C, Wang M, Gao X, Yan M, Akram S, Peng W, Zou H, Wang D, Zhou J, Chu Y, Dou Z, Barrett G, Green HN, Wang F, Tian R, He P, Wang W, Liu X, Yao X

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

[View more WB references on thermofisher.com](#)

### Immunofluorescence (2)

Genes to cells : devoted to molecular and cellular mechanisms

#### Albatross/FBF1 contributes to both centriole duplication and centrosome separation.

"Published figure using PLK1 monoclonal antibody (Product # 37-7100) in Immunofluorescence"

Authors: Inoko A, Yano T, Miyamoto T, Matsuura S, Kiyono T, Goshima N, Inagaki M, Hayashi Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Biochemistry and cell biology = Biochimie et biologie cellulaire

#### Calmodulin activation of polo-like kinase 1 is required during mitotic entry.

Authors: Dai G, Qian Y, Chen J, Meng FL, Pan FY, Shen WG, Zhang SZ, Xue B, Li CJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2013

### More applications with references on thermofisher.com

**PLA (1)**   **IHC (2)**   **IP (2)**

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