

PLK1 Antibody Cocktail

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat, Xenopus
Published Species	Rat, Human, Mouse
Host/Isotope	Mouse / IgG1, kappa/IgG2b, kappa
Class	Cocktail
Type	Antibody
Clone	PL6/PL2
Conjugate	Unconjugated
Immunogen	A His-tagged Plk fusion protein (C-term Plk1) containing amino acids 402-603 of the human Plk1 protein(
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_2533104

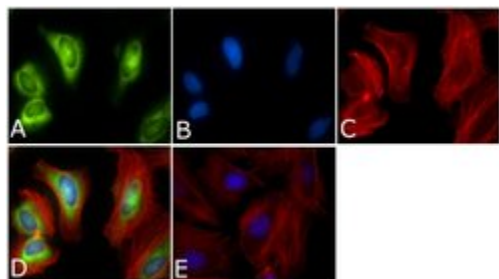
Applications	Tested Dilution	Publications
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunocytochemistry (ICC)	1-5 µg/mL	3 Publications
Immunofluorescence (IF)	1-5 µg/mL	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunoprecipitation (IP)	5 µg	5 Publications
Western Blot (WB)	1-2 µg/mL	28 Publications
Immunohistochemistry (IHC)	-	1 Publication
Miscellaneous PubMed (Misc)	-	4 Publications

Product Specific Information

33-1700 contains a cocktail of monoclonal mouse PLK1 containing clone PL6, isotype IgG1, kappa and clone PY20, isotype IgG2b, kappa.

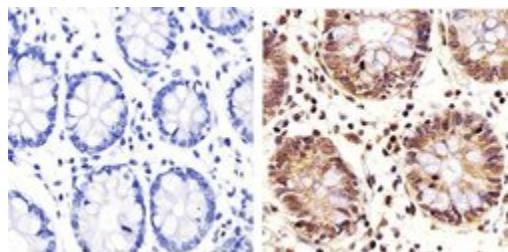
Product Images For PLK1 Antibody Cocktail

PLK1 Antibody (33-1700) in IF



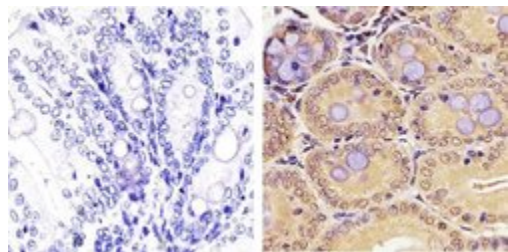
Immunofluorescent analysis of PLK1 Antibody (PL6/PL2) was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with PLK1 Antibody (PL6/PL2) (Product # 33-1700) at 1µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 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 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic and Nuclear localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.

PLK1 Antibody (33-1700) in IHC (P)



Immunohistochemistry analysis of PLK1 showing staining in the nucleus and cytoplasm of paraffin-embedded human 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% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a PLK1 monoclonal antibody (Product # 33-1700) 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.

PLK1 Antibody (33-1700) in IHC (P)



Immunohistochemistry analysis of PLK1 showing staining in the nucleus and cytoplasm 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% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a PLK1 monoclonal antibody (Product # 33-1700) diluted in 3% BSA-PBS at a dilution of 1:50 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.

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Immunocytochemistry (3)

Cell division

HSP70 is required for the proper assembly of pericentriolar material and function of mitotic centrosomes.

"33-1700 was used in Immunocytochemistry-immunofluorescence to study the mechanisms that regulate centrosome expansion and maturation."

Authors: Fang CT,Kuo HH,Hsu SC,Yih LH

Species
Human

Dilution
Not Cited

Year
2020

The Journal of biological chemistry

Phosphorylation of Ran-binding protein-1 by Polo-like kinase-1 is required for interaction with Ran and early mitotic progression.

"Published figure using PLK1 cocktail antibody (Product # 33-1700) in Immunofluorescence"

Authors: Hwang HI, Ji JH, Jang YJ

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2011

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

Immunofluorescence (6)

Cell division

HSP70 is required for the proper assembly of pericentriolar material and function of mitotic centrosomes.

"33-1700 was used in Immunocytochemistry-immunofluorescence to study the mechanisms that regulate centrosome expansion and maturation."

Authors: Fang CT,Kuo HH,Hsu SC,Yih LH

Species
Human

Dilution
Not Cited

Year
2020

Nature communications

CDC20B is required for deuterosome-mediated centriole production in multiciliated cells.

"33-1700 was used in Immunohistochemistry-immunofluorescence to investigate the cell division cycle 20B gene in multiciliated cells."

Authors: Revinski DR,Zaragosi LE,Boutin C,Ruiz-Garcia S,Deprez M,Thomé V,Rosnet O,Gay AS,Mercey O,Paquet A, Pons N,Ponzio G,Marcet B,Kodjabachian L,Barbry P

Species
Mouse

Dilution
1:500

Year
2018

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WB (28) **IHC (1)** **Misc (4)** **IP (5)**

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