

PCNA Monoclonal Antibody (PC10)

Product Details

Size	500 µL
Species Reactivity	Dog, Human, Mouse, Non-human primate, Rat
Published Species	Avian, Yeast, Rat, Pig, Non-human primate, Amphibian, Fish, Zebrafish, Cat, Mouse, Human, Xenopus, Rhesus monkey, Guinea pig, Dog, Rabbit
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	PC10
Conjugate	Unconjugated
Immunogen	Recombinant rat PCNA protein
Form	Liquid
Concentration	20 µg/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_10982348

Applications	Tested Dilution	Publications
Western Blot (WB)	1:50	36 Publications
Immunohistochemistry (IHC)	-	103 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:400	18 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:100	11 Publications
Flow Cytometry (Flow)	1:2-1:4	-
Immunoprecipitation (IP)	1:25	3 Publications
in situ PLA (PLA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	16 Publications

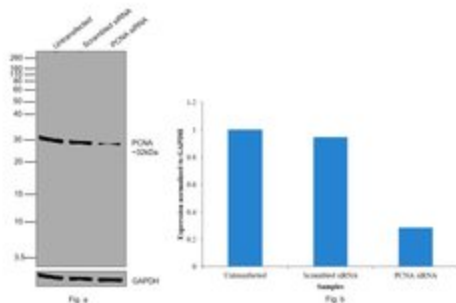
Product Specific Information

Methanol fixation is required for IF staining.

Advanced Verification Data

PCNA Antibody (MA5-11358)

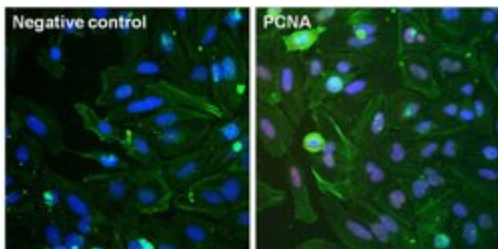
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with PCNA siRNA and decrease in signal intensity was observed in Western Blot application using Anti-PCNA Monoclonal Antibody (PC10) (Product # MA5-11358). Knockdown validation info.



Product Images For PCNA Monoclonal Antibody (PC10)

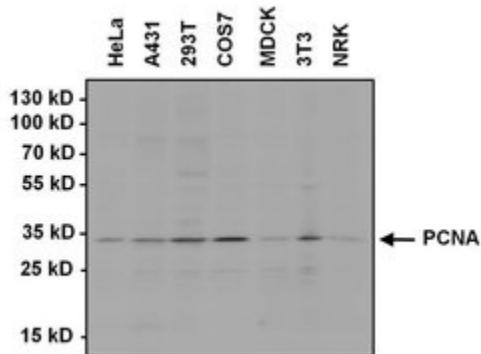
PCNA Antibody (MA5-11358) in ICC/IF

Immunofluorescent analysis of PCNA (purple) in HeLa cells. The cells were fixed and permeabilized with ice-cold methanol for 15 minutes, and blocked with 1% Blocker BSA in PBS (Product # 37525) for 15 minutes at room temperature. Cells were stained with a PCNA monoclonal antibody (Product # MA5-11358) at a dilution of 1:50 in 1% Blocker BSA in PBS (right panel) or incubated in blocking buffer alone as a negative control (left panel) for 1 hour at room temperature, and then incubated with a DyLight 650-conjugated goat anti-mouse IgG secondary antibody (Product # 84545) at a dilution of 1:250 for 30 minutes at room temperature. Actin (green) was stained with a DyLight 488-conjugated beta-actin monoclonal antibody (Product # MA5-15739-D488) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



PCNA Antibody (MA5-11358) in WB

Western blot analysis of PCNA was performed by loading 50 µg of the indicated whole cell lysates per well, and 10 µL of PageRuler Plus Prestained Protein Ladder (Product # 26619) onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane using the G2 Fast Blotter (Product # 62288), and blocked with StartingBlock T20 (TBS) Blocking Buffer (Product # 37543) for 1 hour at room temperature. PCNA was detected between 30-35 kDa after probing with a PCNA monoclonal antibody (Product # MA5-11358) at a dilution of 1:50 in StartingBlock T20 (TBS) Blocking Buffer (Product # 37543) overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-mouse IgG secondary antibody (Product # 31430) at a dilution of 1:20,000 for 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34075). Images were acquired on a Thermo Scientific myECL Imager (Product # 62236).



View more figures on thermofisher.com

Western Blot (36)

Journal of translational science

Cataloging antineoplastic agents according to their effectiveness against platinum-resistant and platinum-sensitive ovarian carcinoma cell lines.

"MA511358 was used in western blot to determine the effectiveness of several antineoplastic agents against epithelial ovarian cancer cell lines."

Authors: Ishiguro K,Zhu YL,Lin ZP,Penketh PG,Shyam K,Zhu R,Baumann RP,Sartorelli AC,Rutherford TJ,Ratner ES

Species
Human

Dilution
Not Cited

Year
2020

Journal of mammary gland biology and neoplasia

The Novel Transcription Factor CREB3L4 Contributes to the Progression of Human Breast Carcinoma.

"MA5-11358 was used in Western Blotting to focus on the importance and relevance of the CREB3 family in BC and to identify which family member is most involved in the development of breast cancer, as well as identify a possible target gene of CREB3L4."

Authors: Pu Q,Lu L,Dong K,Geng WW,Lv YR,Gao HD

Species
Human

Dilution
Not Cited

Year
2020

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

Immunohistochemistry (103)

Molecular brain

Yin Yang 1 is critical for mid-hindbrain neuroepithelium development and involved in cerebellar agenesis.

"MA5-11358 was used in Immunohistochemistry to demonstrate the involvement of Yin yang 1 (Yy1) in cerebellar agenesis and its critical function in mouse early Mid-hindbrain neuroepithelium maintenance and development."

Authors: Dong X,Kwan KM

Species
Mouse

Dilution
Not Cited

Year
2020

Annals of anatomy = Anatomischer Anzeiger : official organ of the Anatomische Gesellschaft

Efficacy of human umbilical cord derived-mesenchymal stem cells in treatment of rat bone marrow exposed to gamma irradiation.

"MA511358 was used in immunohistochemistry to investigate therapeutic effects of the human umbilical cord blood derived mesenchymal stem cells on rat bone marrow exposed to gamma rays"

Authors: Mousa HSE,Shalaby SM,Gouda ZA,Ahmed FE,El-Khodary AA

Species
Human

Dilution
1:500

Year
2017

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

More applications with references on thermofisher.com

IHC (P) (18)

IHC (F) (1)

ICC/IF (11)

IP (3)

PLA (1)

Misc (16)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.