

PCNA Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Hamster, Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 253 of Human PCNA
Form	Liquid
Concentration	0.11 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544690

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	4 Publications
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	1 Publication
Immunoprecipitation (IP)	1:100-1:500	-
In Situ Hybridization (ISH) (ISH)	Assay-dependent	-

Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, NIH-3T3, PC-12, A549, SiHa.

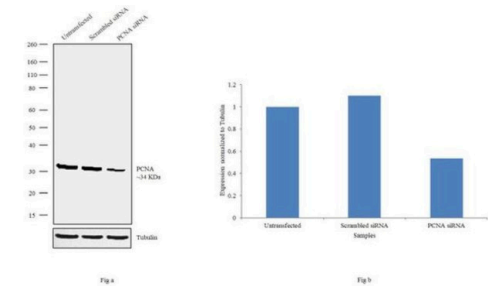
Predicted reactivity: Mouse (97%), Rat (98%), Zebrafish (92%), Xenopus laevis (89%), Pig (100%), Chicken (96%), Rhesus Monkey (100%), Bovine (99%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For PCNA Polyclonal Antibody

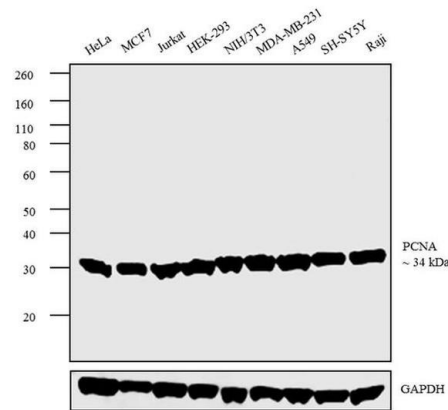
PCNA Antibody (PA5-27214)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with PCNA siRNA and reduction of signal was observed in Western Blot using PCNA Polyclonal Antibody (Product # PA5-27214). {KD}



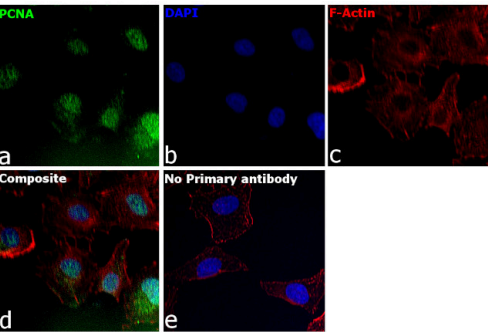
PCNA Antibody (PA5-27214) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane 1), MCF7 (Lane 2), Jurkat (Lane 3), HEK-293 (Lane 4), NIH/3T3 (Lane 5), MDA-MB-231 (Lane 6), A549 (Lane 7), SH-SY5Y (Lane 8) and Raji (Lane 9). The blot was probed with Anti- PCNA Polyclonal Antibody (Product # PA5-27214, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25µg/mL, 1:4000 dilution). A 34 kDa band corresponding to PCNA was observed across the cell lines tested.



PCNA Antibody (PA5-27214) in ICC/IF

Immunofluorescence analysis of PCNA was performed using 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with PCNA Polyclonal Antibody (Product # PA5-27214, 1:100 dilution) in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with Hoechst 33342 (Product # H1399). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 40X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al. / Methods 115 (2017) 28–41).



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Western Blot (4)

Andrologia	Year 2022
Hsa_circ_0074032 promotes prostate cancer progression through elevating homeobox A1 expression by serving as a microRNA-198 decoy.	Species Human
"PA5-27214 was used in Western Blotting to demonstrate that high circ_0074032 level in PCa is associated with worse PCa-related prognosis. Circ_0074032 induced cell apoptosis, curbed cell proliferation, migration and invasion in PCa cells and was identified as miR-198 decoy. Circ_0074032 regulates HOXA1 expression and promotes PCa progression via elevating HOXA1 expression through acting as a miR-198 sponge."	Dilution 1:1000
Authors: Feng C,Wang Q,Deng L,Peng N,Yang M,Wang X	
Journal of oncology	Year 2021
Low-Dose Albendazole Inhibits Epithelial-Mesenchymal Transition of Melanoma Cells by Enhancing Phosphorylated GSK-3/Tyr216 Accumulation.	
"Published figure using PCNA polyclonal antibody (Product # PA5-27214) in Western Blot"	
Authors: He Z,Lei S,Liang F,Tan L,Zhang W,Xie L,Zheng H,Lu Y	

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

Immunohistochemistry (7)

Infection and immunity	Year 2022
Murine Respiratory Tract Infection with Classical Klebsiella pneumoniae Induces Bronchus-Associated Lymphoid Tissue.	Species Mouse
"PA5-27214 was used in Immunohistochemistry-immunofluorescence to confirm that murine lungs infected with K. pneumoniae develop iBALT, which may play a role in pulmonary immunity to this troublesome pathogen."	
Authors: Wasbotten RK,Dahler AA,Mackel JJ,Morffy Smith C,Rosen DA	
International journal of molecular sciences	Year 2022
Cartilage Formation In Vivo Using High Concentration Collagen-Based Bioink with MSC and Decellularized ECM Granules.	
"Published figure using PCNA polyclonal antibody (Product # PA5-27214) in Immunohistochemistry"	
Authors: Isaeva EV,Beketov EE,Demyashkin GA,Yakovleva ND,Arguchinskaya NV,Kisel AA,Lagoda TS,Malakhov EP, Smirnova AN,Petrieve VM,Eremin PS,Osidak EO,Domogatsky SP,Ivanov SA,Shegay PV,Kaprin AD	

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- IHC (P) (4)
- ICC/IF (1)

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