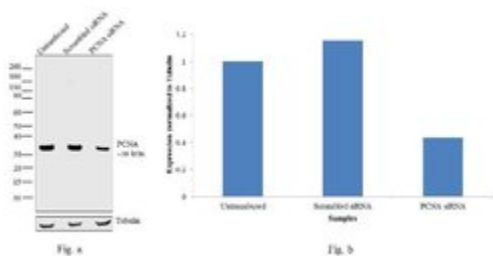


PCNA Monoclonal Antibody (PC10), Biotin

Product Details	
Size	100 µg
Species Reactivity	Human, Insect, Mouse, Non-human primate, Rat, Yeast
Published Species	Sheep, Mouse, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	PC10
Conjugate	Biotin
Immunogen	Rat recombinant PCNA polypeptides.
Form	Liquid
Concentration	0.2 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.4, with 50% glycerol, 1% BSA
Contains	0.1% sodium azide
Storage conditions	4° C
RRID	AB_2533017

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	4 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Advanced Verification Data



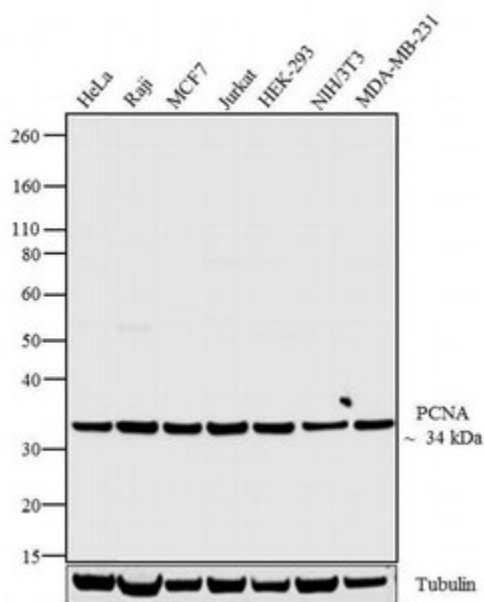
PCNA Antibody (13-3940)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with PCNA siRNA and loss of signal was observed in Western Blot using Anti-PCNA monoclonal Antibody (Product # 13-3940). Knockdown validation info.

Product Images For PCNA Monoclonal Antibody (PC10), Biotin

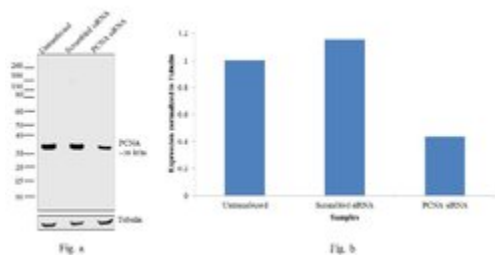
PCNA Antibody (13-3940) in WB

Western blot analysis of PCNA was performed by loading 20 µg of HeLa (lane1), Raji (lane2), MCF-7 (lane3), Jurkat (lane4), HEK-293 (lane5), NIH/3T3 (lane6), MDA-MB-231 (lane7) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. PCNA was detected at ~ 34 kDa using PCNA, Biotin conjugate Mouse Monoclonal Antibody (Product # 13-3940) at 1:1000 dilution in 5 % skim milk at 4°C overnight on a rocking platform. Streptavidin - HRP (Product # SA1007) at 1:2000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



PCNA Antibody (13-3940) in WB

Knockdown of PCNA was achieved by transfecting HeLa cells with PCNA specific validated siRNAs (Silencer® select Product # S10135, S10133). Western blot analysis (Fig. a) was performed using membrane enriched extracts from the PCNA knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with PCNA Monoclonal Antibody, Biotin (Product # 13-3940, 1:1000 dilution) and Streptavidin-HRP (Product # N200, 1:10,000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to PCNA .



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

13 References

Western Blot (1)

Cancer research

The 104-123 amino acid sequence of the beta-domain of von Hippel-Lindau gene product is sufficient to inhibit renal tumor growth and invasion.

Authors: Datta K,Sundberg C,Karumanchi SA,Mukhopadhyay D

Species
Human

Dilution
Not Cited

Year
2001

Immunohistochemistry (5)

PLoS pathogens

HMGB1 amplifies ILC2-induced type-2 inflammation and airway smooth muscle remodelling.

"13-3940 was used in Immunohistochemistry to investigate the processes that mediate tissue damage-induced type-2 inflammation and the origins of airway remodelling, using a preclinical mouse model of viral bronchiolitis."

Authors: Loh Z,Simpson J,Ullah A,Zhang V,Gan WJ,Lynch JP,Werder RB,Sikder AA,Lane K,Sim CB,Porrello E, Mazzone SB,Sly PD,Steptoe RJ,Spann KM,Sukkar MB,Upham JW,Phipps S

Species
Mouse

Dilution
Not Cited

Year
2020

Cell reports

JNK Promotes Epithelial Cell Anoikis by Transcriptional and Post-translational Regulation of BH3-Only Proteins.

"13-3940 was used in Immunohistochemistry-immunofluorescence to study the role of the cJUN NH2-terminal kinase signalling pathway in anoikis."

Authors: Girnius N,Davis RJ

Species
Mouse

Dilution
1:50

Year
2017

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

Immunohistochemistry (Paraffin) (4)

eLife

The cJUN NH₂-terminal kinase (JNK) signaling pathway promotes genome stability and prevents tumor initiation.

"13-3940 was used in Immunohistochemistry to identify cJUN NH2-terminal kinase pathway defects as 'driver' mutations that promote genome instability and tumor initiation."

Authors: Girnius N,Edwards YJ,Garlick DS,Davis RJ

Species
Mouse

Dilution
Not Cited

Year
2018

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

More applications with references on thermofisher.com

ICC/IF (2) **Misc (1)**

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