

Anti- PCNA antibody, rabbit polyclonal

Product code	70-080
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	IgG fraction with protein A from rabbit antiserum.
Immunogen	Purified recombinant human PCNA (full-size, no-tag attached (#10-151)
Isotype	Rabbit IgG
Reactivity	human, mouse and hamster.
Special notes	Specificity has been validated by WB with purified full-size PCNA protein (Fig.2).
Application	<ol style="list-style-type: none"> 1. Western blotting (1/1,000-1/2,000 dilution) 2. Immuno-precipitation (1/100-1/500) 3. Immuno-fluorescence staining/Immuno-cytochemistry (1/100~1/1,000 dilution) 4. Dot blot (1/500~1/2,000). Could detect less than 0.3 ng of PCNA 5. ELISA (1/500~1/2,000). Could detect less than 1 ng of PCNA by direct ELISA.
Background	<p>Rad21 (631 aa, 71 kDa) 2) is a cleavable component of cohesin complex, involved in chromosome cohesion during cell cycle, in DNA repair, and in apoptosis. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At metaphase-anaphase transition, this protein is cleaved by separase/ESPL1 and dissociates from chromatin, allowing sister chromatids to segregate.</p>
Data Link	UniProtKB P12004 (human) , P04961 (rat) , P17918 (mouse) , P18248 (Xenopus laevis)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 70-080 Anti- PCNA antibody, rabbit polyclonal

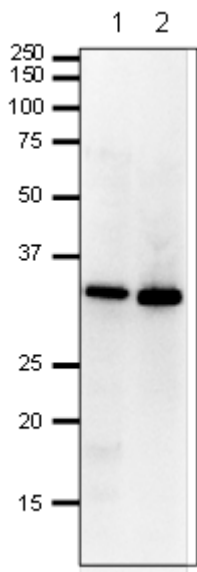


Fig.1 Western Blot of PCNA in HeLa cells and Xenopus egg extract.

Anti-PCNA antibody was used at 1/1,000 dilution. Second antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

1. HeLa cell extract (20 µg)
2. Xenopus egg extract (20 µg)

Molecular mass of PCNA is 29 kDa

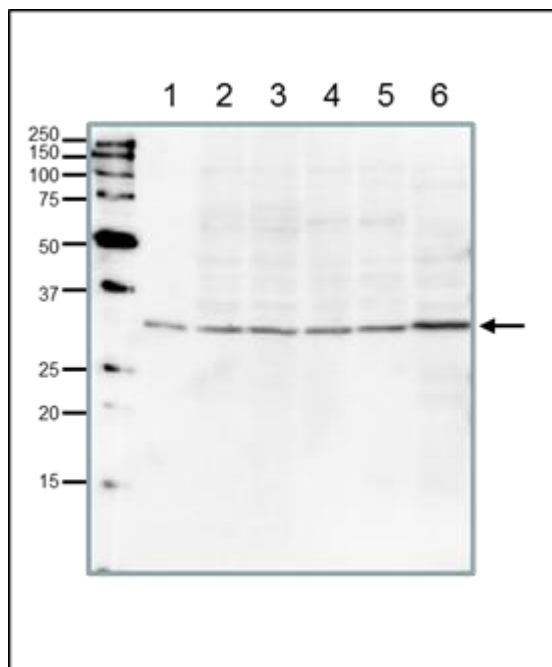


Fig.2 Western blot of PCNA in the whole cell extracts.

Anti-PCNA antibody was used at 1/1,000 dilution. Second antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

1. Full-size recombinant human PCNA protein

(5 ng)

2. HeLa (human), 20 μ g
3. MCF7 (human), 20 μ g
4. NIH3T3 (mouse), 20 μ g
5. CHO (hamster), 20 μ g
6. *Xenopus laevis* egg (frog), 20 μ g

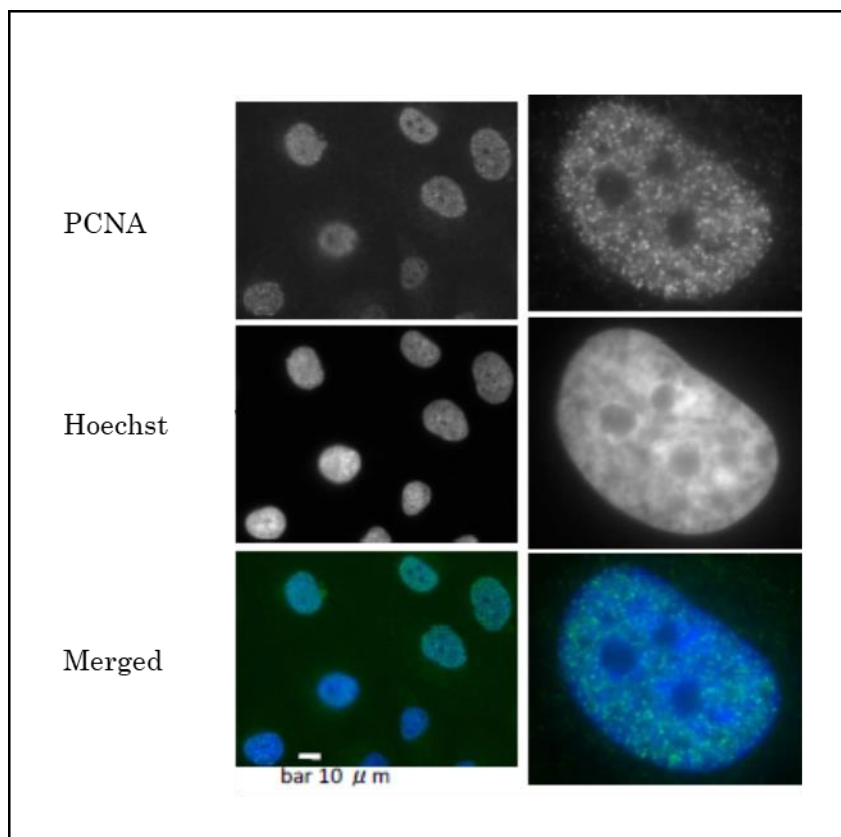


Fig.3 Immuno-fluorescence staining of PCNA. in GM0637 cells (human fibroblast). Cells were fixed with 4% paraformaldehyde, permeabilized with 0.5% Triton and added with the antibody at 1/100 dilution. As the second antibody, goat anti-rabbit IgG conjugated with Alexa 488 was used at 1/10,000 dilution. DNA was stained with Heachst. PCNA foci were detected in the nuclei

Related product:

#10-151 PCNA, functional

Reference : No publication yet using this antibody.