

Purified anti-human/mouse/rat PCNA

Catalog # / Size: 2139505 / 25 µg
2139510 / 100 µg

Clone: PC10

Isotype: Mouse IgG2a, κ

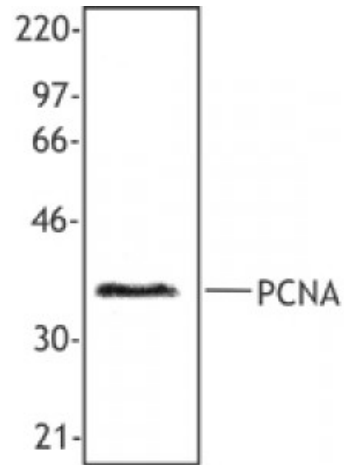
Immunogen: Recombinant rat PCNA

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH7.2, containing 0.09% sodium azide.

Concentration: 0.5



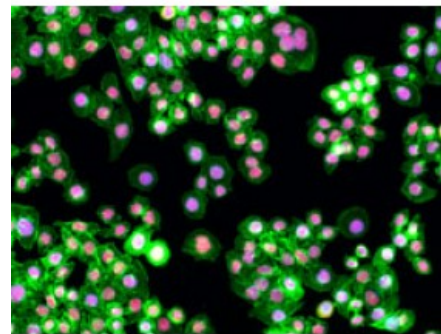
HeLa cell nuclear extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-PCNA antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: Other

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent intracellular staining with flow cytometric analysis. Please follow the Cell Fixation and Permeabilization Protocol Using 70% Ethanol. For flow cytometric staining, the suggested use of this reagent is ≤0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining^{2,5,6} of acetone-fixed frozen sections and formalin-fixed paraffin-embedded tissue sections, immunoprecipitation, intracellular flow cytometry³, immunofluorescence microscopy⁹, and Western blotting¹⁰.



HeLa cells were fixed with 1% paraformaldehyde (PFA) for 10 minutes, permeabilized with 0.5% Triton X-100 for 10 minutes, and blocked with 5% FBS for 30 minutes. Then the cells were intracellularly stained with 5 microg/ml of purified anti-human/mouse/r

- Application References:**
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 5. Yu C, *et al.* 1991. *Histopathology* 19:29.

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 7. Yang W, *et al.* 1996. *Human Pathol.* 27:70.
 8. Galkowska H, *et al.* 1996. *Vet. Immunol. Immunopathol.* 53:329.
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 13. Brobeli A, *et al.* 2010. *Blood Cells Mol Dis.* 45:159. [PubMed](#)
 14. Wallace HA, *et al.* 2014. *Development.* 141:1332. [PubMed](#)
 15. Mizokami A, *et al.* 2014. *Bone.* 69:68. [PubMed](#)
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Description: The PC10 monoclonal antibody reacts with proliferating cell nuclear antigen also known as PCNA or the DNA polymerase δ auxiliary protein. PCNA is a 36 kD trimeric ring that acts as a DNA-polymerase sliding clamp expressed in the nucleus of all proliferating cells. A prime function of PCNA appears to be increasing DNA polymerase δ processibility during elongation of the leading strand. PCNA is a useful marker for DNA synthesis and is highly conserved among most species, thus highlighting the very broad reactivity of this antibody.

- Antigen**
- References:**
1. Travali S, *et al.* 1989. *J. Biol. Chem.* 264:7466.
 2. Waseem N, *et al.* 1990. *J. Cell Sci.* 96:121.
 3. Hall P, *et al.* 1990. *J. Pathol.* 162:285.
 4. Landberg G, *et al.* 1991.