

PE anti-human/mouse/rat PCNA

Catalog # / Size: 307908 / 100 tests

Clone: PC10

Isotype: Mouse IgG2a, κ

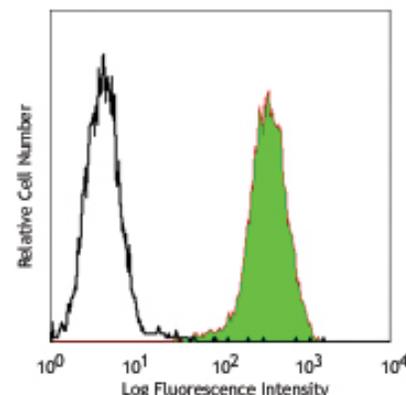
Immunogen: Recombinant rat PCNA

Reactivity: Human, Mouse, Rat, **Cross-Reactivity:** Other species

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



MOLT-4 cells fixed in 70% ethanol then stained with PC10 PE

Applications:

Applications: ICFC - Quality tested

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.

Test size products are transitioning from 20 μ l to 5 μ l per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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.

Application References:

- Ogata K, *et al.* 1985. *J. Immunol.* 135:2623.
- Garcia R, *et al.* 1989. *Am. J. Pathol.* 134:733.
- Landberg G, *et al.* 1990. *Exp. Cell. Res.* 187:111.
- Waseem N, *et al.* 1990. *J. Cell Sci.* 96:121.
- Yu C, *et al.* 1991. *Histopathology* 19:29.
- Wilkins B, *et al.* 1992. *J. Pathol.* 166:45.
- Yang W, *et al.* 1996. *Human Pathol.* 27:70.
- Galkowska H, *et al.* 1996. *Vet. Immunol. Immunopathol.* 53:329.
- Chou HYE, *et al.* 2006. *J. Biol. Chem.* 10:1074.
- Fulvio MD, *et al.* 2006. *Oncogene* 25:3932.
- Eswarakumar VP and Schlessinger J. 2007. *Proc. Natl. Acad. Sci. USA* 104:3937.

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:

- Travali S, *et al.* 1989. *J. Biol. Chem.* 264:7466.
- Waseem N, *et al.* 1990. *J. Cell Sci.* 96:121.
- Hall P, *et al.* 1990. *J. Pathol.* 162:285.
- Landberg G, *et al.* 1991. *Cancer Res.* 51:4570.
- Woods A, *et al.* 1991. *Histopathol.* 19:21.
- Hoege C, *et al.* 2002. *Nature* 419:135.
- Yue H, *et al.* 2003. *World J. Gastroenterol.* 9:377.
- Shan B, *et al.* 2003. *J. Biol. Chem.* 278:44009.

Related Products:

Product
PE Mouse IgG2a, κ Isotype Ctrl
Cell Staining Buffer
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
MOPC-173

Application
FC, ICFC
FC, ICC, ICFC
FC, ICC, ICFC



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