

**PE anti-human/mouse/rat PCNA**

**Catalog # / Size:** 2139540 / 100 tests

**Clone:** PC10

**Isotype:** Mouse IgG2a,  $\kappa$

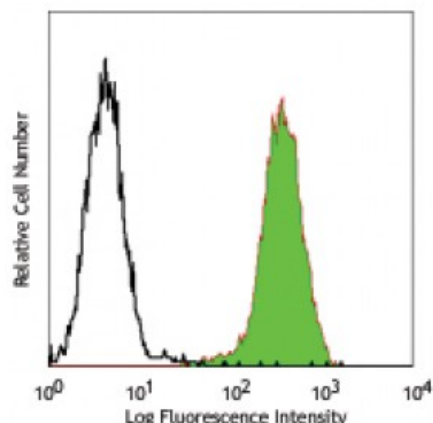
**Immunogen:** Recombinant rat PCNA

**Reactivity:** Rat

**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).

**Concentration:** NULL



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

**Applications:**

**Applications:** Flow Cytometry

**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 microL to 5 microL per test .** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. 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<sup>2,5,6</sup> of acetone-fixed frozen sections and formalin-fixed paraffin-embedded tissue sections, immunoprecipitation, intracellular flow cytometry<sup>3</sup>, immunofluorescence microscopy<sup>9</sup>, and Western blotting<sup>10</sup>.

- Application References:**
1. Ogata K, *et al.* 1985. *J. Immunol.* 135:2623.
  2. Garcia R, *et al.* 1989. *Am. J. Pathol.* 134:733.
  3. Landberg G, *et al.* 1990. *Exp. Cell. Res.* 187:111.
  4. Waseem N, *et al.* 1990. *J. Cell Sci.* 96:121.
  5. Yu C, *et al.* 1991. *Histopathology* 19:29.
  6. Wilkins B, *et al.* 1992. *J. Pathol.* 166:45.
  7. Yang W, *et al.* 1996. *Human Pathol.* 27:70.
  8. Galkowska H, *et al.* 1996. *Vet. Immunol. Immunopathol.* 53:329.
  9. Chou HYE, *et al.* 2006. *J. Biol. Chem.* 10:1074.
  10. Fulvio MD, *et al.* 2006. *Oncogene* 25:3932.
  11. Eswarakumar VP and Schlessinger J. 2007. *Proc. Natl. Acad. Sci. USA* 104:3937.
  12. Kumsiri R, *et al.* 2010. *Acta Trop.* 116:217. [PubMed](#)

**Description:** The PC10 monoclonal antibody reacts with proliferating cell nuclear antigen also known as PCNA or the DNA polymerase  $\delta$  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  $\delta$  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.