

## Alexa Fluor® 647 anti-human/mouse/rat PCNA

**Catalog # / Size:** 307912 / 100 tests

**Clone:** PC10

**Isotype:** Mouse IgG2a, κ

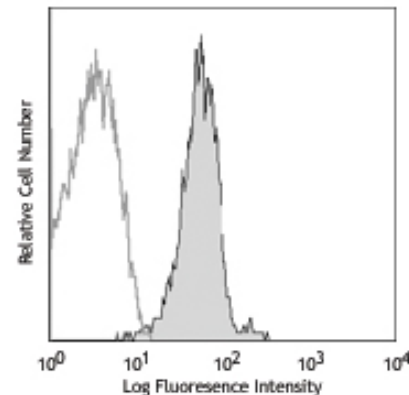
**Immunogen:** Recombinant rat PCNA

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

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

**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 between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes fixed with 70% ethanol, then intracellular stained with PC10 Alexa fluor® 647

## Applications:

**Applications:** ICFC - *Quality tested*  
IF

**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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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**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:**

- 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.
- Hoegge 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	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	Alexa Fluor® 647 Mouse IgG2a, κ Isotype Ctrl (ICFC)	MOPC-173	ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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