

## **Product Data Sheet**

## Biotin anti-human/mouse/rat PCNA

Catalog # / Size: 307903 / 25 µg

307904 / 100 µg

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 biotin under optimal conditions. The

solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. Do not freeze.

## **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. For immunofluorescent staining, the suggested use of this reagent is  $\leq$ 0.125  $\mu$ g per million cells in 100  $\mu$ l 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<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.

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.

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.

Fulvio MiD, et al. 2006. Orlogene 23.3332.
Eswarakumar VP and Schlessinger J. 2007. Proc. Natl. Acad. Sci. USA 104:3937.
Spector I, et al. 2012. PLoS One. 7:e41833. PubMed.
Kim JH, et al. 2012. Immunol Lett. 147:18. PubMed.
Satchi-Fainaro R, et al. 2012.PLoS One. 7:e44395. 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.

Hall Y, Gall 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.

8. Shan B, et al. 2003. J. Biol. Chem. 278:44009.

**Related Products: Product** 

Biotin Mouse IgG2a,  $\kappa$  Isotype Ctrl

FITC Streptavidin

HRP Streptavidin PE Streptavidin

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone **MOPC-173** 

Application FC, ICFC FC, ICFC

ELÍSA, ELISPOT, IHC, WB

FC, ICFC FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

