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 #8580

PCNA (PC10) Mouse mAb (Alexa Fluor® 488 Conjugate)


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 TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-IC, FC-FP	Reactivity: H M R Mk B Pg	Sensitivity: Endogenous	Source/Isotype: Mouse IgG2a	UniProt ID: #P12004	Entrez-Gene Id: 5111
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Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:200 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity / Sensitivity	PCNA (PC10) Mouse mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total PCNA protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant Protein A-PCNA fusion protein obtained from pC2T.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated PCNA (PC10) Mouse mAb #2586.	
Background	Proliferating cell nuclear antigen (PCNA) is a member of the DNA sliding clamp family of proteins that assist in DNA replication (1). Crystal structure data suggests that a PCNA homotrimer ring can encircle and slide along the DNA double helix (2). Multiple proteins involved in DNA replication, DNA repair, and cell cycle control bind to PCNA rather than directly associating with DNA, thus facilitating fast processing of DNA (reviewed in 3). PCNA protein expression is a well-accepted marker of proliferation.	
Background References	1. Kelman, Z. and O'Donnell, M. (1995) <i>Nucleic Acids Res</i> 23, 3613-20. 2. Krishna, T.S. et al. (1994) <i>Cell</i> 79, 1233-43. 3. Maga, G. and Hubscher, U. (2003) <i>J Cell Sci</i> 116, 3051-60.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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