

## Monoclonal Antibody to PCNA FITC

<b>Alternate names:</b>	Cyclin, Proliferating Cell Nuclear Antigen
<b>Catalog No.:</b>	AM10035FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Uniprot ID:</b>	<a href="#">P12004</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	PC10
<b>Immunogen:</b>	Rat PCNA made in the protein A expression vector pR1T2T.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow cytometry: Neat - 1:10; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl; Cell permeabilisation is required for this application. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the proliferating cell nuclear antigen (PCNA), a nuclear protein vital for cellular DNA synthesis. <b>Species:</b> Human, Insects, Vertebrates, Rat. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Mathews MB, Bernstein RM, Franza BR, Garrels JI. Identity of the proliferating cell nuclear antigen and cyclin. <i>Nature</i> . 1984 May 24-30;309(5966):374-6. PubMed PMID: 6145097. 2. Ogata K, Ogata Y, Nakamura RM, Tan EM. Purification and N-terminal amino acid sequence of proliferating cell nuclear antigen (PCNA)/cyclin and development of ELISA for anti-PCNA antibodies. <i>J Immunol</i> . 1985 Oct;135(4):2623-7. PubMed PMID: 2863307. 3. Garcia RL, Coltrera MD, Gown AM. Analysis of proliferative grade using anti-PCNA/cyclin monoclonal antibodies in fixed, embedded tissues. Comparison with flow cytometric analysis. <i>Am J Pathol</i> . 1989 Apr;134(4):733-9. PubMed PMID: 2565087. 4. Landberg G, Tan EM, Roos G. Flow cytometric multiparameter analysis of proliferating cell nuclear antigen/cyclin and Ki-67 antigen: a new view of the cell cycle. <i>Exp Cell Res</i> . 1990 Mar;187(1):111-8. PubMed PMID: 1967582.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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5. Wilson GD, Camplejohn RS, Martindale CA, Brock A, Lane DP, Barnes DM. Flow cytometric characterisation of proliferating cell nuclear antigen using the monoclonal antibody PC10. *Eur J Cancer*. 1992;28A(12):2010-7. PubMed PMID: 1358156.
6. Elsässer HP, Biederbick A, Kern HF. Growth of rat pancreatic acinar cells quantitated with a monoclonal antibody against the proliferating cell nuclear antigen. *Cell Tissue Res*. 1994 Jun;276(3):603-9. PubMed PMID: 7914831.
7. Prosperi E, Stivala LA, Sala E, Scovassi AI, Bianchi L. Proliferating cell nuclear antigen complex formation induced by ultraviolet irradiation in human quiescent fibroblasts as detected by immunostaining and flow cytometry. *Exp Cell Res*. 1993 Apr;205(2):320-5. PubMed PMID: 8097724.

**Pictures:**

Staining of KM-H2 cells (permeabilised) with MOUSE ANTI PCNA:FITC (SM1421F)

