

Product datasheet for **AM10035FC-N**

PCNA Mouse Monoclonal Antibody [Clone ID: PC10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PC10
Applications:	FC, IF
Recommended Dilution:	Flow Cytometry: Use 10 µl of Neat-1/10 of diluted antibody to label 10 ⁶ cells in 100 µl. Cell permeabilisation is required for this application.
Reactivity:	Amphibian, Drosophila, Fish, Mammalian, Yeast
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Rat PCNA made in the protein A expression vector pR1T2T.
Specificity:	<p>This antibody recognises the proliferating cell nuclear antigen (PCNA), a nuclear protein vital for cellular DNA synthesis.</p> <p>PCNA is highly conserved between mammalian species and other vertebrates. Mouse anti Human PCNA, clone <i>PC10</i> has been used for the detection of PCNA in a number of species including Rat (Elsässer et al. 1994), Mouse (Park et al. 2008), Chicken (Franz-Odenaal 2008) and Abalone (Harris et al. 2006).</p>
Formulation:	<p>PBS</p> <p>Label: FITC</p> <p>State: Liquid purified IgG fraction</p> <p>Stabilizer: 1% BSA</p> <p>Preservative: 0.09% Sodium Azide</p> <p>Label: Fluorescein Isothiocyanate Isomer 1</p>
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	FITC
Storage:	<p>Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.</p> <p>This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing.</p>
Stability:	Shelf life: one year from despatch.



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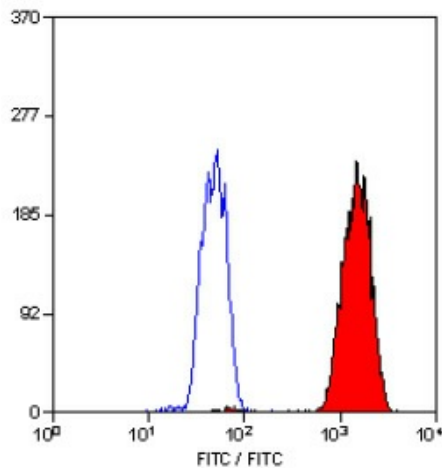
Gene Name: proliferating cell nuclear antigen

Database Link: [P12004](#)

Background: Proliferating Cell Nuclear Antigen, commonly known as PCNA, is a protein that acts as a processivity factor for DNA polymerase delta in eukaryotic cells. The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome. PCNA was originally identified as an antigen that is expressed in the nuclei of cells during the DNA synthesis phase of the cell cycle. It is increased during late G1 phase and S phase of the cell cycle and declines during G2 and M phases.

Synonyms: Cyclin

Product images:



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