

# Anti-PCNA [PC5]

**Catalogue number:** 151150

**Sub-type:** Primary antibody

**Images:** [https://res.cloudinary.com/ximbio/image/upload/c\\_fit/6c43b786-c4a2-4f9b-9531-7ce3cb69cb5f.jpg](https://res.cloudinary.com/ximbio/image/upload/c_fit/6c43b786-c4a2-4f9b-9531-7ce3cb69cb5f.jpg)

## Contributor

**Inventor:** David Lane

**Institute:** Cancer Research UK, London Research Institute: Clare Hall Laboratories

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## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-PCNA [PC5]

**Alternate name:** Proliferating Cell Nuclear Antigen; DNA Polymerase Delta Auxiliary Protein; ATLD2

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** PCNA, also known as polymerase delta auxiliary protein, is essential for DNA replication and is involved in DNA excision and mismatch repair pathways. PCNA binds to the CDK inhibitor p21, the structure-specific endonucleases Fen1 and XPG, and DNA cytosine 5-methyltransferase (MCMT). PCNA is a potentially useful marker of cells with proliferative potential and for identifying the proliferation status of tumour tissue (i.e. relevant to prognosis).

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1 kappa

**Reactivity:** Human ; Insect ; Schizosaccharomyces pombe

**Selectivity:**

**Host:** Mouse

**Immunogen:** Protein A-PCNA fusion obtained from pC2T.

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Proliferating cell nuclear antigen, (PCNA), also known as cyclin or polymerase delta accessory protein

**Target alternate names:**

**Target background:** PCNA, also known as polymerase delta auxiliary protein, is essential for DNA replication and is involved in DNA excision and mismatch repair pathways. PCNA binds to the CDK inhibitor p21, the structure-specific endonucleases Fen1 and XPG, and DNA cytosine 5-methyltransferase (MCMT). PCNA is a potentially useful marker of cells with proliferative potential and for identifying the proliferation status of tumour tissue (i.e. relevant to prognosis).

**Molecular weight:**

**Ic50:**

## Applications

**Application:** IHC ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Espinosa et al. 2013. PLoS One. 8(2):e55975. PMID: 23405241. ; Mitosis is a source of potential markers for screening and survival and therapeutic targets in cervical cancer. ; Singh et al. 2011. PLoS One. 6(9):e25125. PMID: 21966433. ; Partial inhibition of estrogen-induced mammary carcinogenesis in rats by tamoxifen: balance between oxidant stress and estrogen responsiveness. ; Waseem et al. 1990. J Cell Sci. 96 ( Pt 1):121-9. PMID: 1695635. ; Monoclonal antibody analysis of the proliferating cell nuclear antigen (PCNA). Structural conservation and the detection of a nucleolar form.

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