



Qty: 100µg in 500 µL
Mouse anti-PCNA
Biotin
Catalog No. 13-3940
Lot No. See product label

Mouse anti-Proliferating Cell Nuclear Antigen(PCNA)-Biotin

FORM

Liquid. The monoclonal antibody is provided at 0.2 mg/ml in 10 mM PBS, pH 7.4, containing 50% glycerol, 1% BSA and 0.1% sodium azide (NaN₃).

PURIFIED MONOCLONAL MOUSE ANTI-PCNA is conjugated with biotin under optimum conditions and is free of unconjugated biotin.

CLONE: PC10 **ISOTYPE:** IgG_{2a}

IMMUNOGEN: Recombinant PCNA polypeptides

FUSION PARTNER: Sp2/0-Ag14

SPECIFICITY

This antibody reacts with PCNA from all vertebrate species, insects, and *S. pombe* on Western blots.⁽¹⁾

REACTIVITY

Species Reactivity: Human, Mouse, Rat, Chicken, Xenopus.

Lysates Tested: HeLa cells, A431 cells, WI-38 human fibroblasts, *Xenopus* cytosol, NIH 3T3 cells.

USAGE

This antibody is useful for staining the nuclei in proliferating cells during the G1, S, G2, and M stages. The dilutions below are only starting recommendations. Optimal concentrations of this antibody should be determined by the researcher for each specific application.

Immunofluorescence⁽³⁾:

Immunohistology^(2,4): 1:5 - 1:20 (Alcohol or formalin-fixed, paraffin-embedded⁽⁷⁻⁹⁾)

Western Blotting⁽⁶⁾: 1:500-2,000

Immunocytochemistry⁽¹⁰⁾

STORAGE

Store at 4°C.

BACKGROUND

PCNA, originally known as Cyclin, is a 36 kD nuclear protein associated with the cell cycle. It has recently been identified as the polymerase delta accessory protein. PCNA is essential for cellular DNA synthesis. It is also required for the in vitro replication of simian virus 40 (SV 40) DNA, where it acts to coordinate reading and lagging strand synthesis at the replication fork. This antibody is a useful tool for studying the proliferating cells in normal tissues, and possible aberrant expression in neoplasm. It has been suggested that high expression of PCNA correlates with organ metastasis and vascular invasion, and may be an effective prognostic factor.⁽²⁾

(cont'd)

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REFERENCES

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Product	Conjugate	Cat. No.
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	Biotin	81-6540
Protein A rec-Protein G	Sepharose® 4B	10-1041
	Sepharose® 4B	10-1241

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