



Qty: 200 µg/400 µl

Mouse anti-PCNA

Catalog No. 13-3900

Lot No. See product label

Mouse anti-Proliferating Cell Nuclear Antigen (PCNA)

FORM

This monoclonal antibody is supplied as a 400 µl aliquot at 0.5 mg/ml in phosphate buffered saline, pH 7.4, with 0.1% sodium azide (NaN₃). The antibody was purified from ascites raised in Balb/C mice.

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

IMMUNOGEN: Rat recombinant PCNA polypeptides

SPECIFICITY

This antibody reacts with PCNA (36 kDa) in human, primate, insect, and yeast.⁽¹⁾

REACTIVITY

All vertebrate species, insects, and *S. pombe*.

USAGE

The dilutions below are only starting recommendations. Optimal concentrations of this antibody should be determined by the researcher for each specific application.

	Immunofluorescence ⁽³⁾	
Immunohistochemistry ^(2,4) (Alcohol or formalin-fixed, paraffin-embedded ⁽⁷⁻⁹⁾):		5 µg/ml
	Immunoprecipitation:	2-5 µg
	Western Blotting ⁽⁶⁾ :	0.25 – 1.0 µg/ml
	Immunocytochemistry ⁽¹⁰⁾	

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Do not repeatedly freeze and thaw.

BACKGROUND

PCNA, originally known as cyclin, is a 36 kDa nuclear protein, which plays an integral role in the eukaryotic cell cycle. PCNA is essential for cellular DNA synthesis, and it is also required for the *in vitro* replication of simian virus 40 (SV 40). PCNA was recently identified as an auxiliary protein of DNA polymerase- δ and acts to coordinate leading and lagging strand synthesis at the replication fork.

It has been suggested that expression of high levels of PCNA protein correlates with organ metastasis and vascular invasion. Therefore, detection of high levels of PCNA may be an effective prognostic indicator. The mouse anti-PCNA antibody is a useful tool for studying the proliferating cells in normal tissues, and possible aberrant expression in neoplasms.

(cont'd)

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PI133900

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REFERENCES

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RELATED PRODUCTS

<u>Product</u>	<u>Clone/PAD</u>	<u>Cat. No.</u>
PCNA Staining Kit	-----	93-1143
<u>Immunoassay reagents</u>		
Goat anti-Mouse IgG (H+L) (ZyMAX™ Grade)	<u>Conjugate</u>	<u>Cat. No.</u>
	Purified	81-6500
	FITC	81-6511
	TRITC	81-6514
	Cy™3	81-6515
	Cy™5	81-6516
	HRP	81-6520
	AP	81-6522
	Biotin	81-6540
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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