



Product Information Sheet

Monoclonal Anti-Proliferating Cell Nuclear Antigen, *PCNA*

Catalogue No. MA1083

Immunogen

Protein A fusion protein

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: IML-83

Ig type: mouse IgG2a

Application

Western blot

Size: 100µg/vial

At 2µg/ml with the appropriate system to detect PCNA in cells and tissues.

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Immunohistochemistry(P)

At 0.4-1µg/ml to detect PCNA in formalin fixed and paraffin embedded tissues. Boiling the sections may improve the staining.

Immunohistochemistry(F)

At 0.4-1µg/ml to detect PCNA in formalin or acetone fixed tissues.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

BACKGROUND

Proliferating cell nuclear antigen (PCNA) was originally identified by immunofluorescence as a nuclear protein whose appearance correlated with the proliferative state of the cell. PCNA /cyclin has been localized by in situ hybridization to the short arm of human chromosome 20 with a peak of grains over band 20p13. PCNA gene is present in single copy and has 6 exons. It spans 4,961 bp. Synthesis of the nuclear protein cyclin and DNA in quiescent mouse fibroblasts is coordinately induced by serum and purified growth factors. PCNA controls establishment of sister chromatid cohesion during S phase.

REFERENCE

1. Bravo, R. : Synthesis of the nuclear protein cyclin (PCNA) and its relationship with DNA replication. *Exp. Cell Res.* 163: 287-293, 1986.
2. Moldovan, G.-L.; Pfander, B.; Jentsch, S. : PCNA controls establishment of sister chromatid cohesion during S phase. *Molec. Cell* 23: 723-732, 2006.
3. Webb, G.; Parsons, P.; Chenevix-Trench, G. : Localization of the gene for human proliferating nuclear antigen/cyclin by in situ hybridization. *Hum. Genet.* 86: 84-86, 1990.