



## Product Information Sheet

### Monoclonal Anti-Proliferating Cell Nuclear Antigen, *PCNA*- Magnetic Bead Conjugate

**Catalogue No.** MA1083-M

**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

**Formulation**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Size:** 200µl

**Storage**

Store at 4°C for frequent use.

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

**Recommended application**

*Immunoprecipitation(IP)*

### 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.

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