

# Anti-PCNA Antibody [4-E11]

## M1405-8



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	~30kDa
<b>Clone number:</b>	4-E11

**Description:** Proliferating cell nuclear antigen (PCNA) is a member of the DNA sliding clamp family of proteins that assist in DNA replication. Crystal structure data suggests that a PCNA homotrimer ring can encircle and slide along the DNA double helix. Multiple proteins involved in DNA replication, DNA repair, and cell cycle control bind to PCNA rather than directly associating with DNA, thus facilitating fast processing of DNA. PCNA protein expression is a well-accepted marker of proliferation.

**Immunogen:** Synthetic peptide within Human PCNA aa 31-80 / 261.

**Positive control:** Raji

**Subcellular location:** Nucleus

**Database links:** SwissProt: P12004 Human

**Recommended Dilutions:**

**WB** 1:2,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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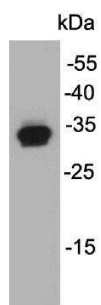
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## Images



**Fig1:** Western blot analysis on Raji cell lysates using anti-PCNA mouse mAb.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. "Interaction of human DNA polymerase eta with monoubiquitinated PCNA: a possible mechanism for the polymerase switch in response to DNA damage." Kannouche P.L., Wing J., Lehmann A.R. Mol. Cell 14:491-500(2004).
2. "Tyrosine phosphorylation controls PCNA function through protein stability." Wang S.C., Nakajima Y., Yu Y.L., Xia W., Chen C.T., Yang C.C., McIntush E.W., Li L.Y., Hawke D.H., Kobayashi R., Hung M.C. Nat. Cell Biol. 8:1359-1368(2006).

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