

Anti-PCNA Antibody

R1306-5



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-P
Molecular Wt:	Predicted band size: 29 kDa

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 21-82.

Positive control: HeLa cell lysate, Raji cell lysate, HepG2 cell lysate, L929 cell lysate, SK-Br-3 cell lysate, F9 cell lysate, PC-12 cell lysate, Hela, human colon tissue.

Subcellular location: Nucleus.

Database links: SwissProt: P12004 Human | P17918 Mouse | P04961 Rat

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100
IHC-P	1:200

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: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

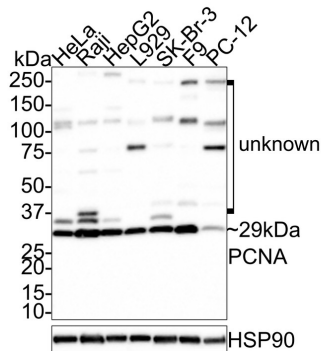
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Images

Fig1: Western blot analysis of PCNA on different lysates with Rabbit anti-PCNA antibody (R1306-5) at 1/1,000 dilution.

Lane 1: HeLa cell lysate
 Lane 2: Raji cell lysate
 Lane 3: HepG2 cell lysate
 Lane 4: L929 cell lysate
 Lane 5: SK-Br-3 cell lysate
 Lane 6: F9 cell lysate
 Lane 7: PC-12 cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 29 kDa

Observed band size: 29 kDa

Exposure time: 2 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1306-5) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

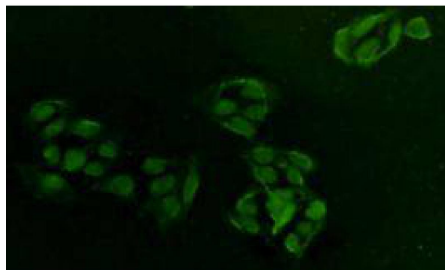


Fig2: Immunofluorescent staining of HeLa cells using anti- PCNA rabbit polyclonal antibody.

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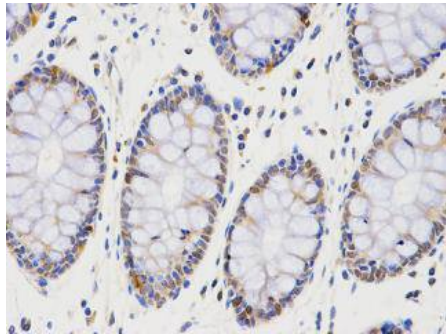


Fig3: Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-PCNA rabbit polyclonal antibody.

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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