Product datasheet

Anti-PCNA Antibody (Clone#2G2)

Catalog Number: *M00125-3*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-PCNA Antibody (Clone#2G2)
Gene Name	PCNA
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human PCNA recombinant protein (Position: M1-S261).
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	36 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Proliferating cell nuclear antigen (PCNA) is a DNA clamp that acts as a processivity factor for DNA polymerase δ in eukaryotic cells and is essential for replication. It is mapped to 20p12.3. The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome.

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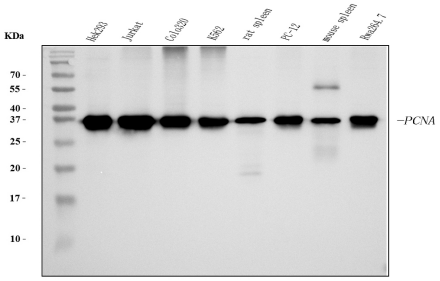
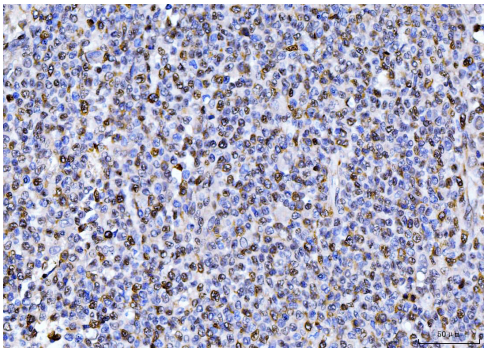
Reference

Anti-PCNA Antibody (Clone#2G2)被引用在82文献中。

Selected Validation Data



Western blot analysis of PCNA using anti-PCNA antibody (M00125-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Hek293 whole cell lysates,
Lane 2: Jurkat whole cell lysates,
Lane 3: Colo320 whole cell lysates,
Lane 4: K562 whole cell lysates,
Lane 5: rat spleen tissue lysates,
Lane 6: PC-12 whole cell lysates,
Lane 7: mouse spleen tissue lysates,
Lane 8: RAW264.7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-PCNA antigen affinity purified monoclonal antibody (M00125-3) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PCNA at approximately 36 kDa. The expected band size for PCNA is at 29 kDa.



IHC analysis of PCNA using anti-PCNA antibody (M00125-3).
PCNA was detected in a paraffin-embedded section of human clymphadenoma tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-PCNA Antibody (M00125-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.

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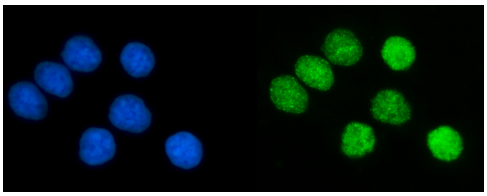
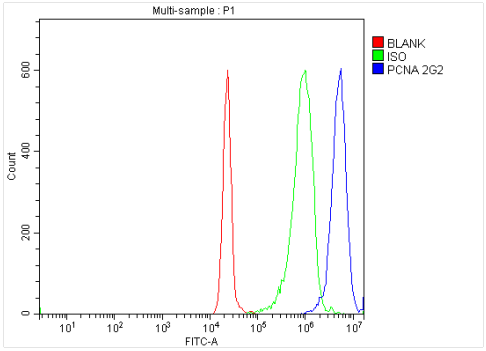


IF analysis of PCNA using anti-PCNA antibody (M00125-3).
PCNA was detected in an immunocytochemical section of HEP3B cells. The section was incubated with mouse anti-PCNA Antibody (M00125-3) at a dilution of 1:100. Dylight488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of Jurkat cells using anti-PCNA antibody (M00125-3).
Overlay histogram showing Jurkat cells stained with M00125-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-PCNA Antibody (M00125-3) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.