Anti-PCNA Antibody (Clone#DO-16)

Catalog Number: *BM3888*

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.
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Basic Information

Product Name	Anti-PCNA Antibody (Clone#DO-16)
Gene Name	PCNA
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human PCNA
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	36 kDa
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:20 Flow Cytometry (FCM): 1:20

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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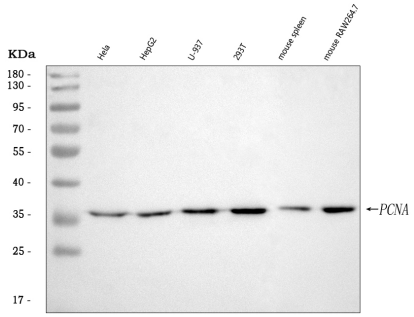
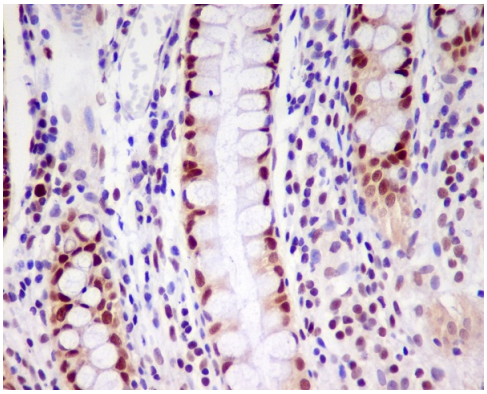
Reference

Anti-PCNA Antibody (Clone#DO-16)被引用在14文献中。

Selected Validation Data



Western blot analysis of anti- PCNA antibody (BM3888). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Hela whole cell lysates,
Lane 2: HepG2 whole cell lysates,
Lane 3: U-937 whole cell lysates,
Lane 4: 293T whole cell lysates,
Lane 5: mouse spleen tissue lysates,
Lane 6: rat RAW264.7 tissue lysates.
Use mouse anti- PCNA 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for PCNA at approximately 36KD. The expected band size for PCNA is at 29KD.



IHC analysis using anti- PCNA antibody (BM3888). detected in paraffin-embedded section of paraffin-embedded human colon tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

Product datasheet

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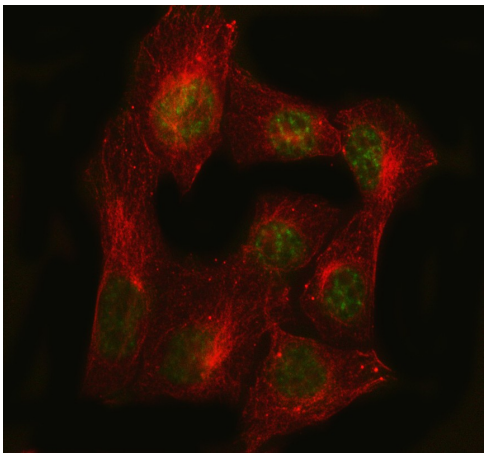

ICC/IF analysis of PCNA using anti-PCNA antibody (BM3888) and anti-Beta Tubulin antibody (M01857-3).
PCNA was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-PCNA Antibody (BM3888) at a dilution of 1:100. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Fluoro550-conjugated Anti- mouse IgG Secondary Antibody (red)(Catalog#BA1133) were used as secondary antibody.