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Human PCNA antibody

Catalog Number: APC0828

PRODUCT INFORMATION

Catalog number
APC0828

Clone No.
k1A3

Product type
Monoclonal Antibody

UnitProt No.
P12004

NCBI Accession No.
NP_002583

Alternative Names
Proliferating cell nuclear antigen, MGC8367, Proliferating cell nuclear antigen, Proliferating cell nuclear antigen, PCNA

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human PCNA (1-261aa) purified from E. coli

Isotype
IgG3 kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB

Usage
The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

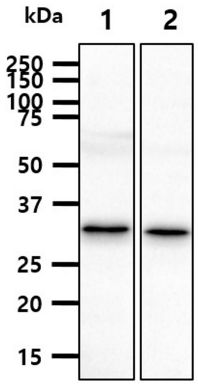
PCNA (Proliferating Cell Nuclear Antigen) is found in the nucleus and is a cofactor of DNA polymerase delta. This protein is associated with DNA synthesis and repair. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. It appears during late G1- phase, S-phase of mitosis and persists until the end of the M-phase because of its long biological half-life. PCNA may be induced by UV irradiation, growth factors and eventually by neighboring tumors.

General References

Moldovan GL, et al., (2007) Cell 18 129(4):665-679.
Matsumoto K , et al., (1987) EMBO 6(3):637-642.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PCNA (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate
Lane 2.: NIH3T3 cell lysate