

Product Datasheet

PCNA (9C9) Mouse mAb



Catalog No: AB0060

Reactivity: Human,Mouse,Rat

Isotype: Mouse IgG1

Applications: WB,IHC

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Information

UniProt ID: P12004

All Names: Proliferating Cell Nuclear Antigen; DNA polymerase delta auxiliary protein; PCNAR

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 29kDa

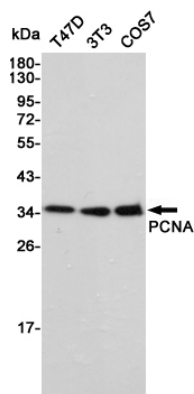
Application

WB: 1/1000-1/10000

IHC: 1/50-1/200

Background

Auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways (PubMed:24939902). Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while Lys-63-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion.



Western blot analysis of PCNA in T47D,3T3 and COS7 lysates using PCNA antibody.

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