

PCNA (9C9) Mouse mAb

db6498

Package : 50µL 100µL

Product Name : PCNA (9C9) Mouse mAb**Cat.No.:** db6498**Synonyms** : Proliferating Cell Nuclear Antigen; DNA polymerase delta auxiliary protein; PCNAR**Application** : WB, IHC-P**Reactivity** : Human, Mouse, Rat**Host species** : Mouse**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.

Immunogen

Synthetic Peptide of PCNA

Gene ID

5111

Swiss Prot

P12004

Synonyms

Proliferating Cell Nuclear Antigen; DNA polymerase delta auxiliary protein; PCNAR

Reactivity

Human, Mouse, Rat

Application

WB, IHC-P

Recommended dilution

WB: 1:5000-1:10000

IHC: 1/50-1:200

Calculated MW

29 kDa

Observed MW

36 kDa

Host species

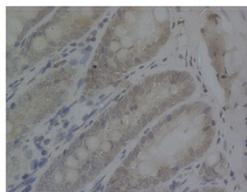
Mouse

Clonality

Monoclonal

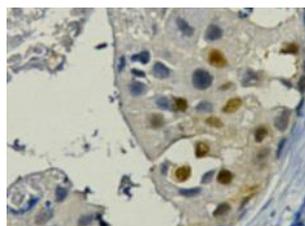
Clonality No.	9C9-5B5-2A3
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.

rat- small intestine

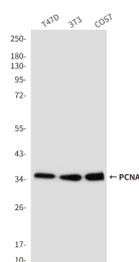


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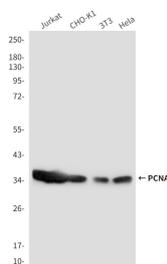
Immunohistochemistry analysis of paraffin-embedded rat small intestine using PCNA (9C9) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



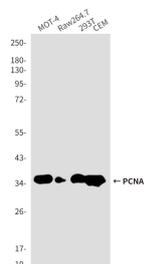
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using PCNA (9C9) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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



Western blot analysis of PCNA in Jurkat, CHO-K1, 3T3, HeLa lysates using PCNA (9C9) antibody.



Western blot analysis of PCNA (9C9) in MOT4, Raw264.7, 293T, CEM lysates using PCNA (9C9) antibody.

