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.

- 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.