HRP-conjugated PCNA Monoclonal Antibody

Catalog No. AN00472HP

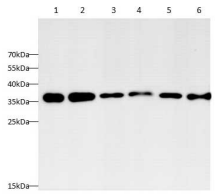
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human PCNA protein expressed by E.coli
Host	Mouse
Isotype	IgG2a
Clone	Da-9C6
Purification	Protein A/G Purification
Conjugation	HRP
Buffer	PBS with 0.1% procline 300,1% protective protein and 50% glycerol,pH7.4

Applications	Recommended Dilution
WB	1:2500-1:5000

Data



Western blot with HRP-conjugated PCNA Monoclonal Antibody at dilution of 1:5000. lane 1: Raji whole cell lysate, lane 2: HepG2 whole cell lysate, lane 3: HL-60 whole cell lysate, lane 4: Raw264.7 whole cell lysate, lane 5: NIH/3T3 whole cell lysate, lane 6: PC-12 whole cell lysate

Observed Mw:35kDa

Calculated Mw:29kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. Protected from prolonged exposure to light.

Background

Auxiliary protein of DNA polymerase delta and epsilon, 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

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tolerance pathways.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.

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