**German Research Products - GRP GmbH** 

In der Stockwiese 26

D-85410 Haag/Amper, Germany

Email: info@grp-ak.de Phone: +49 (0)8167 6335

## **Product Datasheet**

## **PCNA Polyclonal Antibody GRP300**

Description 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. 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.

Rabbit Species/Host

Reactivity Human, Mouse, Rat

Conjugation Unconjugated

**Tested Applications** IHC-P, WB

KLH conjugated synthetic peptide derived from human PCNA **Immunogen** 

(public immunogen range: 220-260/261)

Aqueous buffered solution containing 1% BSA, 50% glycerol and Form/Appearance

0.09% sodium azide.

Concentration 1ug/ul

Store at -20°C for 12 months. Storage

For research use only. Note

Isotype IgG

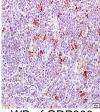
Clonality Polyclonal

**Purity** Purified by Protein A.

**Uniprot ID** P12004

**Entrez** 5111

WB: 1:300-1000, IHC-P: 1:200-400 **Dilution Range** 



WB of GRP300

