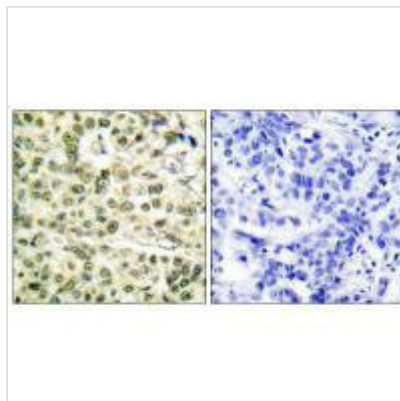


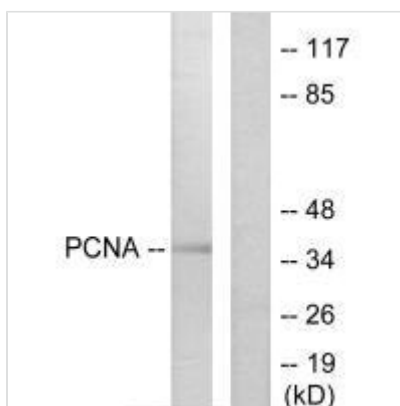


PCNA Antibody

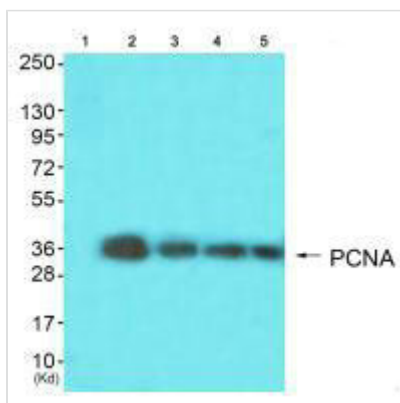
Product Code	CSB-PA974334
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P12004
Immunogen	Synthesized peptide derived from Human PCNA.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous levels of total PCNA protein.
Tested Applications	ELISA,WB,IHC;WB:1:500-1:3000,IHC:1:50-1:100
Relevance	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. Anje Sporbert, Nucleic Acids Res., Jun 2005; 33: 3521 - 3528. Sean C. Gehen, Am J Physiol Lung Cell Mol Physiol, Mar 2007; 292: L716 - L724. Basavaraj Bagewadi, J. Virol., Nov 2004; 78: 11890 - 11903. T Iida, I Suetake, Genes Cells, Oct 2002; 7: 997 -
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	cyclin; proliferating cell nuclear antigen;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	PCNA
Image	



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PCNA antibody.



Western blot analysis of extracts from HepG2 cells, using PCNA antibody.



Western blot analysis of extracts from HeLa cells (Lane 2), colo cells (Lane 3), HepG2 cells (Lane 4) and 293 cells (Lane 5) using PCNA antibody. The lane on the left is treated with synthesized peptide.