

## PCNA Monoclonal Antibody

Catalog No: #27210

Package Size: #27210-1 50ul #27210-2 100ul

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## Description

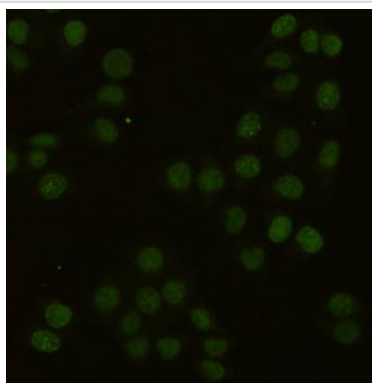
Product Name	PCNA Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	2E1-G10-H10
Isotype	IgG2b
Applications	WB IP ICC IHC
Species Reactivity	Hu Ms Mk Rt Hm
Specificity	This antibody detects endogenous levels of PCNA and does not cross-react with related proteins.
Immunogen Type	Recombinant Protein
Immunogen Description	Purified recombinant human PCNA protein fragments expressed in E.coli.
Target Name	PCNA
Other Names	Cyclin; Cyclin; DNA polymerase delta auxiliary protein; DNA polymerase delta auxiliary protein; HGCN8729; MGC8367; MGC8367; Mutagen-sensitive 209 protein; OTTHUMP00000030189; OTTHUMP00000030190; PCNA; Pcn/cyclin; PCNA_HUMAN; PCNAR;
Accession No.	Uniprot: P12004 Gene ID: 5111
Uniprot	P12004
GeneID	5111;
SDS-PAGE MW	36kd
Formulation	ascites
Storage	store at -20Λ C

## Application Details

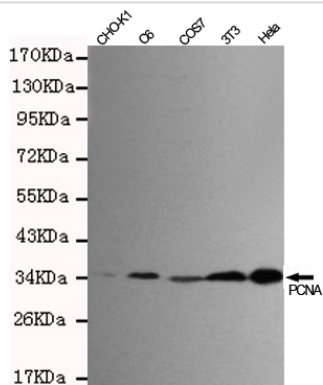
Western blotting: 1:1000

Immunocytochemistry: 1:100

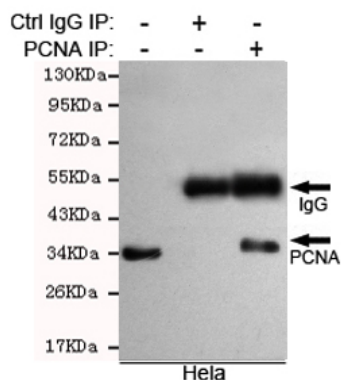
## Images



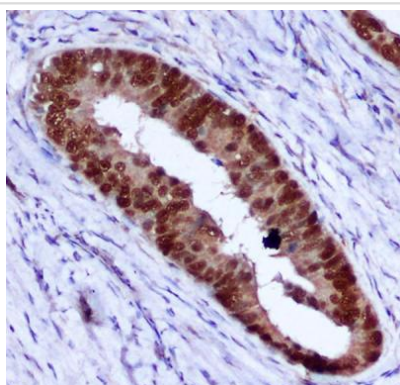
Immunocytochemistry staining of HeLa cells using anti-PCNA antibody (dilution 1:100). Fixed in 100% methanol for 2hr at -20°C.



Western blot detection of PCNA antibody in HeLa,3T3,COS7,C6 and CHO-K1 cell lysates using PCNA antibody (1:1000 diluted).Predicted band size:36KDa.Observed band size:36KDa.



Immunoprecipitation analysis of HeLa cell lysates using PCNA antibody.



Immunohistochemical analysis of paraffin-embedded human colorectal carcinoma with PCNA Mouse mAb (2E1-G10-H10,1:400 diluted),showing nuclear localization.A high pressure mediated antigen retrieval step was performed in citrate buffer(pH6.0).

## 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.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.

Note: This product is for in vitro research use only