

anti- PCNA antibody

Product Information

Catalog No.:	FNab06216
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

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 information

Immunogen:	proliferating cell nuclear antigen
Synonyms:	Proliferating cell nuclear antigen, Cyclin
Observed MW:	38 kDa
UniprotID :	P12004

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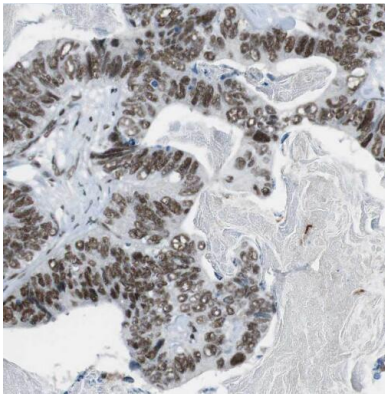
Application

Reactivity: Human, Mouse, Rat, Rabbit, pig, monkey, zebrafish, hamster

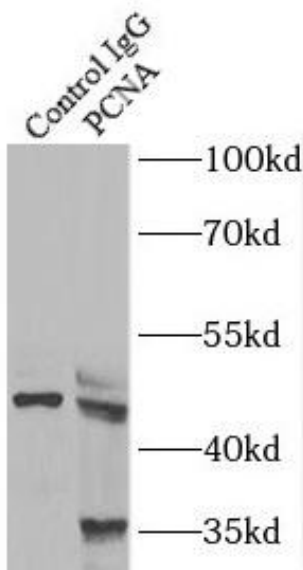
Tested Application: ELISA, WB, IHC, IP

Recommended dilution: WB: 1:500 - 1:2000; IHC: 1:50 - 1:500

Image:



Immunohistochemistry of paraffin-embedded human stomach cancer using FNab06216(PCNA antibody) at dilution of 1:50



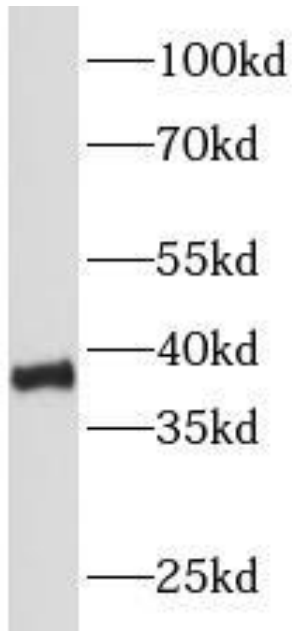
IP Result of anti-PCNA (IP:FNab06216, 3ug; Detection:FNab06216 1:1500) with MCF-7 cells lysate 2500ug.

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MCF7 cells were subjected to SDS PAGE followed by western blot with FNab06216(PCNA antibody) at dilution of 1:2000