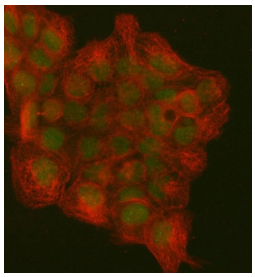
PCNA Antibody (RQ5594)

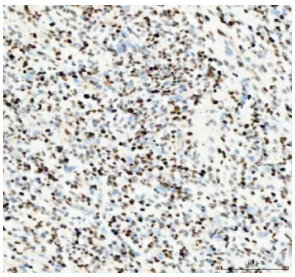
Catalog No.	Formulation	Size
RQ5594	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

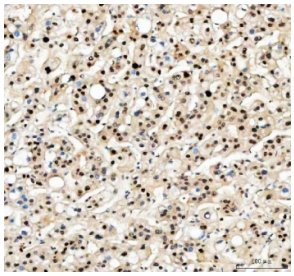
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P12004
Applications	Western blot: 0.25-0.5ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 5ug/ml Flow cytometry (intracellular): 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This PCNA antibody is available for research use only.



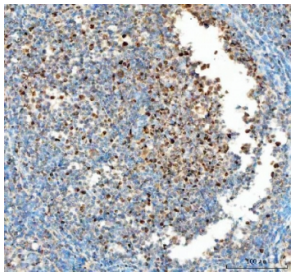
Immunofluorescent staining of FFPE human A431 cells with PCNA antibody (green) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



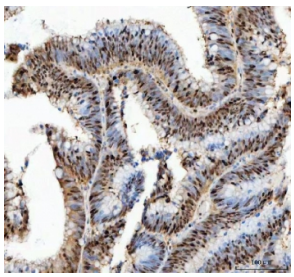
IHC staining of FFPE human glioblastoma tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



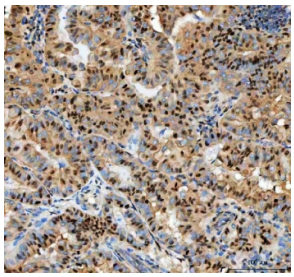
IHC staining of FFPE human liver cancer tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



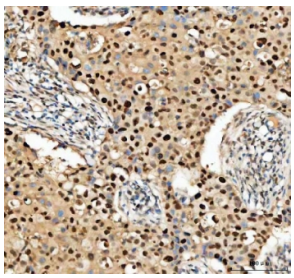
IHC staining of FFPE human tonsil tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



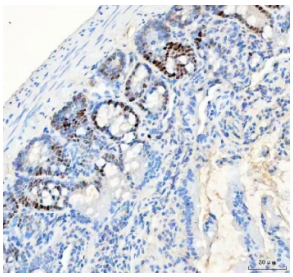
IHC staining of FFPE human colorectal adenocarcinoma tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



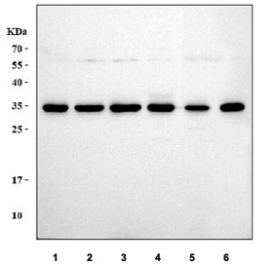
IHC staining of FFPE human papillary thyroid carcinoma tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



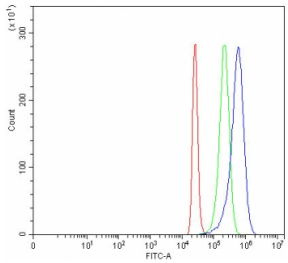
IHC staining of FFPE human breast cancer tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat colon tissue with PCNA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human MCF7, 3) human 293T, 4) human HepG2, 5) rat PC-12 and 6) mouse NIH 3T3 cell lysate with PCNA antibody. Predicted molecular weight ~29 kDa, routinely observed at 29~36 kDa.



Flow cytometry testing of human 293T cells with PCNA antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PCNA antibody.

Description

Proliferating cell nuclear antigen (PCNA) is a DNA clamp that acts as a processivity factor for DNA polymerase delta in eukaryotic cells and is essential for replication. It is mapped to 20p12.3. The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome.

Application Notes

Optimal dilution of the PCNA antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids M1-S261) was used as the immunogen for the PCNA antibody.

Storage

After reconstitution, the PCNA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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