

For Research Use Only

# CoraLite® Plus 488-conjugated PCNA Polyclonal antibody



Catalog Number: CL488-10205

Featured Product

1 Publications

## Basic Information

Catalog Number:

CL488-10205

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0277

GenBank Accession Number:

BC000491

GeneID (NCBI):

5111

UNIPROT ID:

P12004

Full Name:

proliferating cell nuclear antigen

Calculated MW:

29 kDa/31 kDa

Observed MW:

36-38 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC (Intra), IF-P

Cited Applications:

IF

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

IF : human breast cancer tissue,

## Background Information

Proliferating Cell Nuclear Antigen, commonly known as PCNA, is a protein that acts as a processivity factor for DNA polymerase  $\delta$  in eukaryotic cells. This protein is an 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. PCNA induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. It has to be loaded onto DNA in order to be able to stimulate APEX2. PCNA protein is highly conserved during evolution; the deduced amino acid sequences of rat and human differ by only 4 of 261 amino acids. PCNA has been used as loading control for proliferating cells. This antibody is a rabbit polyclonal antibody raised against an internal region of human PCNA. The calculated molecular weight of PCNA is 29 kDa, but modified PCNA is 36kDa (PMID: 1358458).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ya Jiang	36198360	J Biol Chem	IF

## Storage

Storage:

Store at -20°C. Avoid exposure to light.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

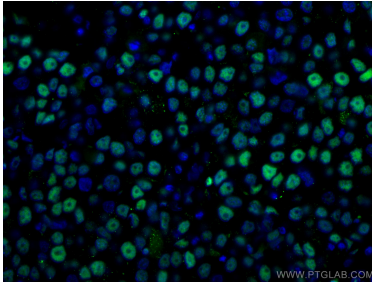
T: 4006900926

E: Proteintech-CN@ptglab.com

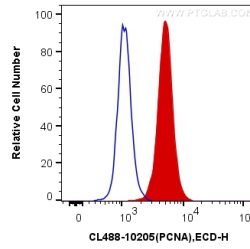
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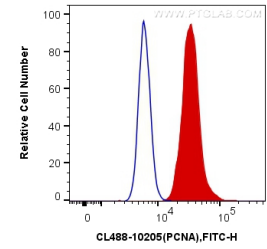
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CoraLite® Plus 488 PCNA antibody (CL488-10205) at dilution of 1:200.



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human PCNA (CL488-10205) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human PCNA (CL488-10205) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).