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**Product Name: PCNA Mouse Monoclonal Antibody****Catalog #: AMM83030**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ELISA,FC
<b>Reactivity</b>	Human,Mouse,Rat,Rabbit,Monkey
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	PBS containing 0.03% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	28.7kDa

**Antigen Information**

<b>Gene Name</b>	PCNA
<b>Alternative Names</b>	PCNA
<b>Gene ID</b>	5111.0
<b>SwissProt ID</b>	P12004
<b>Immunogen</b>	Purified recombinant fragment of human PCNA (AA: 53-196 ) expressed in E. Coli.

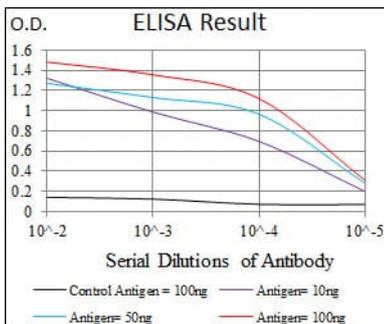
**Background**

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

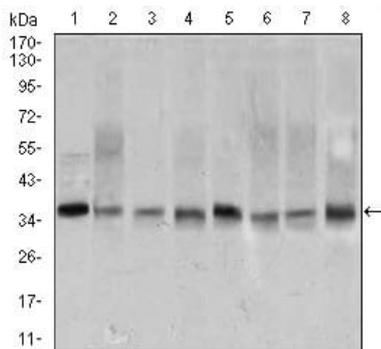
encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome.

## Research Area

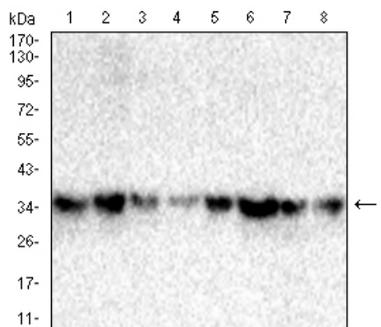
## Image Data



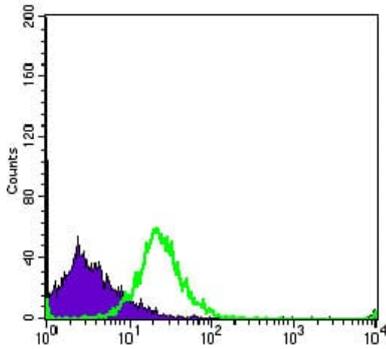
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



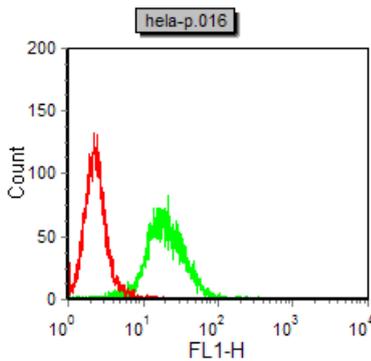
Western blot analysis using PCNA mouse mAb against A431 (1), HEK293 (2), HeLa (3), HepG2 (4), Raji (5), MOLT4 (6), COS7 (7), and MCF-7 (8) cell lysate.



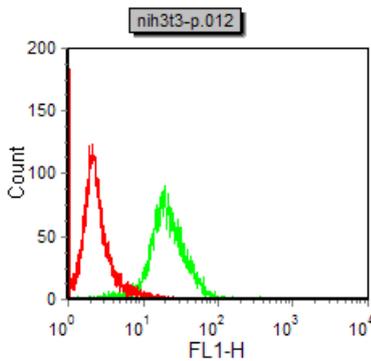
Western blot analysis using PCNA mouse mAb against Raw264.7(1)NIH/3T3(2)NRK(3)C2C12(4)C6(5)L1210(6)F9(7)CHO3D10(8) cell lysate.



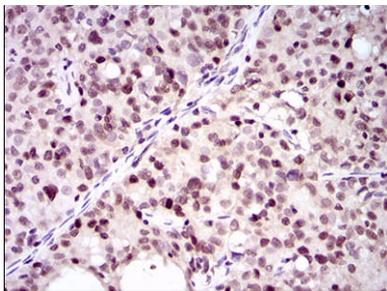
Flow cytometric analysis of MOLT4 cells using PCNA mouse mAb (green) and negative control (purple).



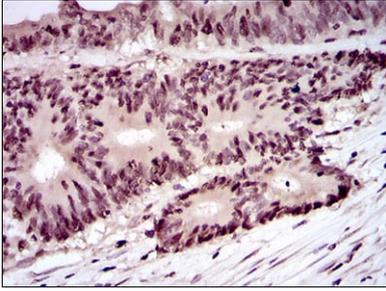
Flow cytometric analysis of HeLa cells using PCNA mouse mAb (green) and negative control (red).



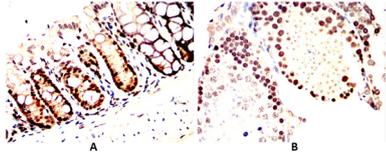
Flow cytometric analysis of NIH/3T3 cells using PCNA mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using PCNA mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using PCNA mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse colon(A) Mouse testis(B) using PCNA mouse mAb with DAB staining.