

**PCNA Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a full length recombinant PCNA.****Catalog # AT3236a****Specification**

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**PCNA Antibody (monoclonal) (M02) - Product Information**

Application	WB, IF, IP, E
Primary Accession	<a href="#">P12004</a>
Other Accession	<a href="#">BC000491</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a kappa
Calculated MW	28769

**PCNA Antibody (monoclonal) (M02) - Additional Information****Gene ID** 5111**Other Names**

Proliferating cell nuclear antigen, PCNA, Cyclin, PCNA

**Target/Specificity**

PCNA (AAH00491, 1 a.a. ~ 261 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IF~~1:50~200

IP~~N/A

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

PCNA Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

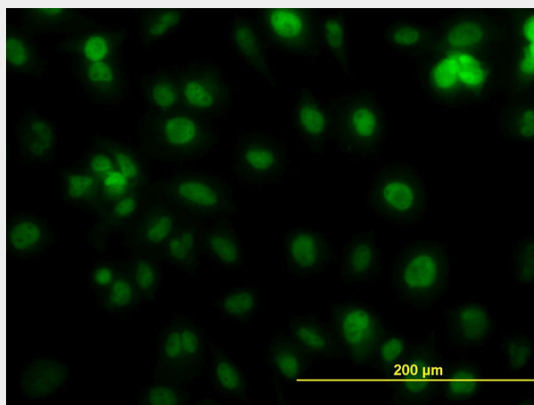
**PCNA Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

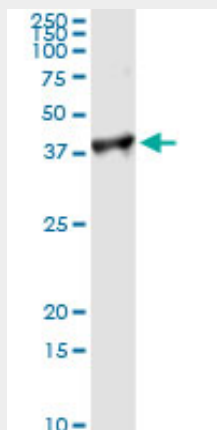
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

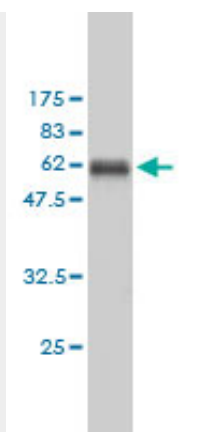
#### PCNA Antibody (monoclonal) (M02) - Images



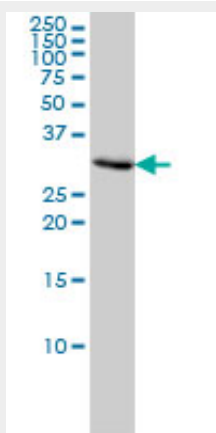
Immunofluorescence of monoclonal antibody to PCNA on HeLa cell. [antibody concentration 10 ug/ml]



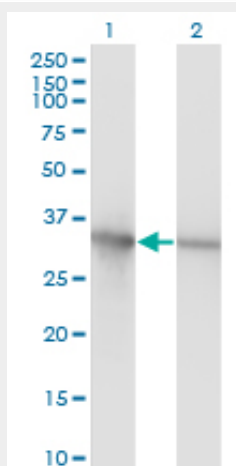
Immunoprecipitation of PCNA transfected lysate using anti-PCNA monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with PCNA MaxPab rabbit polyclonal antibody.



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (54.45 KDa) .



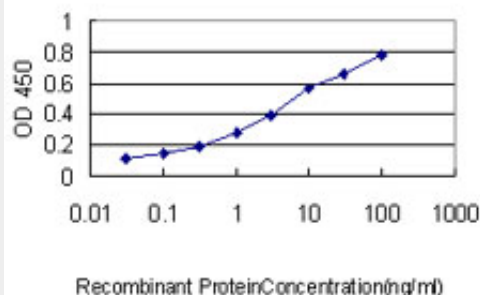
PCNA monoclonal antibody (M02), clone 1G7 Western Blot analysis of PCNA expression in Hela (Cat # AT3236a )



Western Blot analysis of PCNA expression in transfected 293T cell line by PCNA monoclonal antibody (M02), clone 1G7.

Lane 1: PCNA transfected lysate(28.8 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PCNA is approximately 0.1ng/ml as a capture antibody.

### **PCNA Antibody (monoclonal) (M02) - 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.

### **PCNA Antibody (monoclonal) (M02) - References**

1. The RAD51-stimulatory compound RS-1 can exploit the RAD51 overexpression that exists in cancer cells and tumors. Mason JM, Logan HL, Budke B, Wu M, Pawlowski M, Weichselbaum RR, Kozikowski AP, Bishop DK, Connell PP. *Cancer Res.* 2014 Apr 21.