

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

PCNA Antibody (monoclonal) (M02) - Product Information

Application	WB, IF, IP, E
Primary Accession	P12004
Other Accession	BC000491
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.

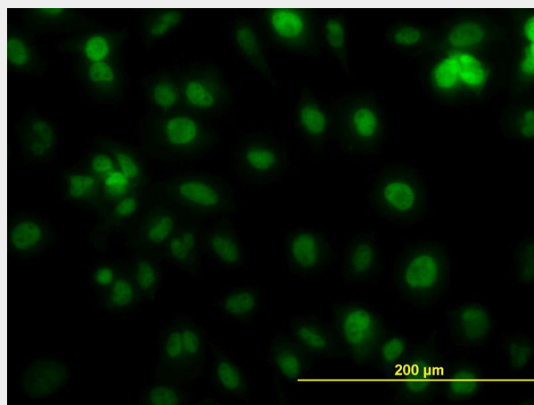
PCNA Antibody (monoclonal) (M02) - Protocols

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

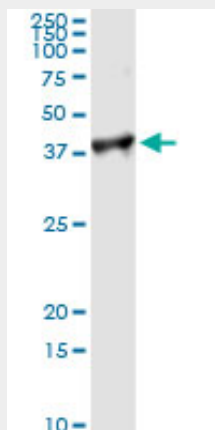
- [Western Blot](#)

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

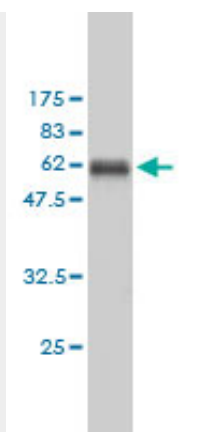
PCNA Antibody (monoclonal) (M02) - Images



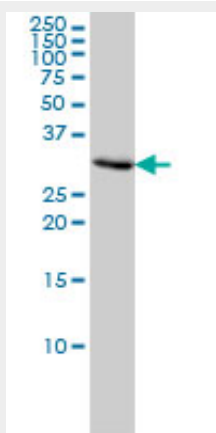
Immunofluorescence of monoclonal antibody to PCNA on HeLa cell. [antibody concentration 10 ug/ml]



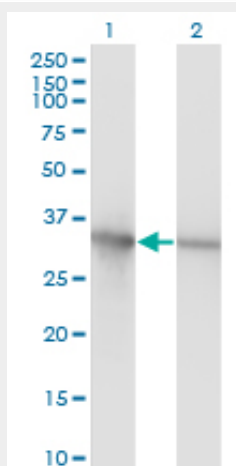
Immunoprecipitation of PCNA transfected lysate using anti-PCNA monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with PCNA MaxPab rabbit polyclonal antibody.



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



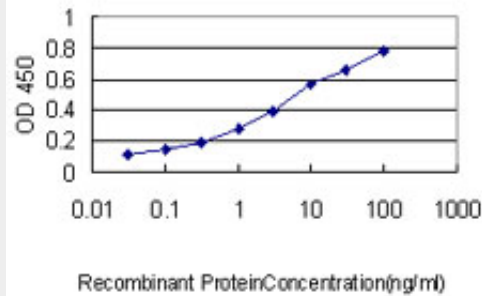
PCNA monoclonal antibody (M02), clone 1G7 Western Blot analysis of PCNA expression in Hela (Cat # AT3236a)



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.