

**PCNA Antibody (monoclonal) (M04)**

Mouse monoclonal antibody raised against a full length recombinant PCNA.

Catalog # AT3237a

**Specification**

---

**PCNA Antibody (monoclonal) (M04) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P12004</a>
Other Accession	<a href="#">BC000491</a>
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	28769

**PCNA Antibody (monoclonal) (M04) - 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

**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) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

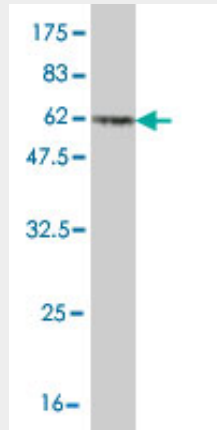
**PCNA Antibody (monoclonal) (M04) - Protocols**

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

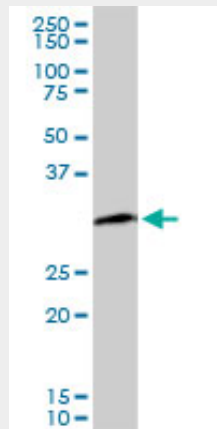
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

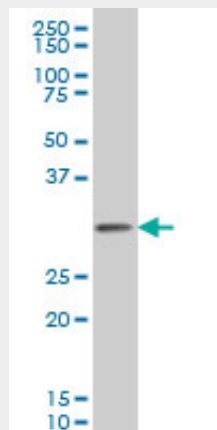
### PCNA Antibody (monoclonal) (M04) - Images



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

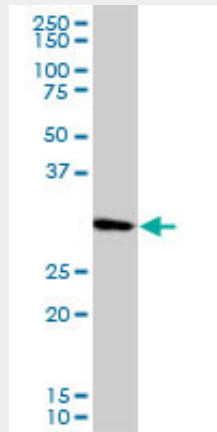


PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in PC-12 (Cat # AT3237a )

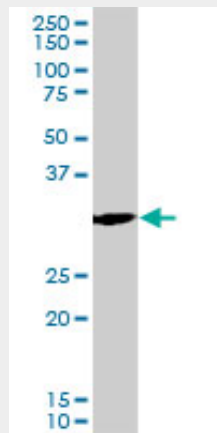


PCNA monoclonal antibody (M04), clone S1 Western Blot analysis of PCNA expression in Hela S3

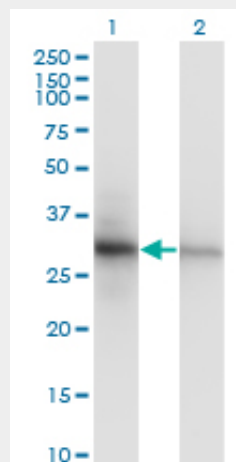
NE ( (Cat # AT3237a )



PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in Raw 264.7 ( (Cat # AT3237a )



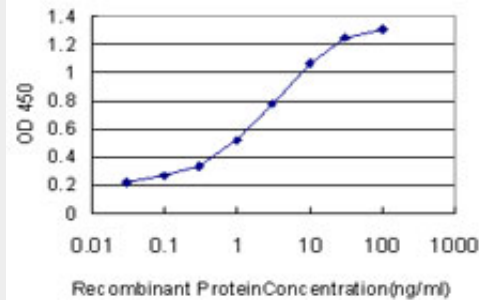
PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in NIH/3T3 ( (Cat # AT3237a )



Western Blot analysis of PCNA expression in transfected 293T cell line by PCNA monoclonal antibody (M04), clone S1.

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) (M04) - 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) (M04) - References**

1. DNA Topoisomerase III Alpha Regulates p53-Mediated Tumor Suppression. Hsieh MY, Fan JR, Chang HW, Chen HC, Shen TL, Teng SC, Yeh YH, Li TK. *Clin Cancer Res.* 2014 Mar 15;20(6):1489-501. doi: 10.1158/1078-0432.CCR-13-1997. Epub 2014 Feb 13.