

#### 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
Primary Accession P12004
Other Accession BC000491
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.  $\sim$  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

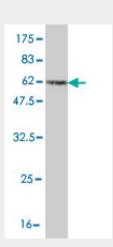
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

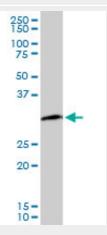


- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

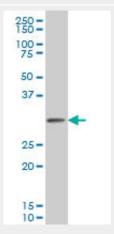
## PCNA Antibody (monoclonal) (M04) - Images



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



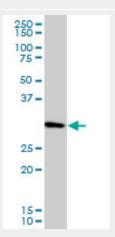
PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in PC-12 ((Cat # AT3237a))



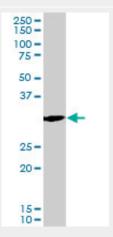
PCNA monoclonal antibody (M04), clone S1 Western Blot analysis of PCNA expression in Hela S3



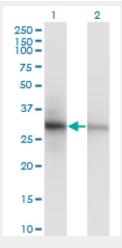




PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in Raw 264.7 ( (Cat # AT3237a )



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.



1.4 1.2 1 9\$ 0.8 0 0.6 0.4 0.2

10

100

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

Recombinant ProteinConcentration(ng/ml)

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

0.01

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 TKClin Cancer Res. 2014 Mar 15;20(6):1489-501. doi: 10.1158/1078-0432.CCR-13-1997. Epub 2014 Feb 13.