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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	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. ~ 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

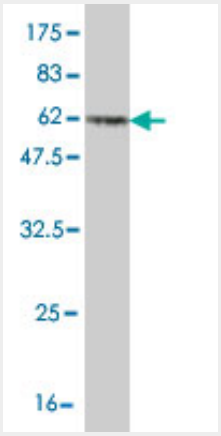
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

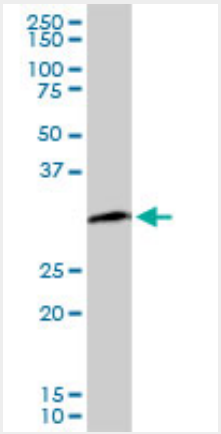
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

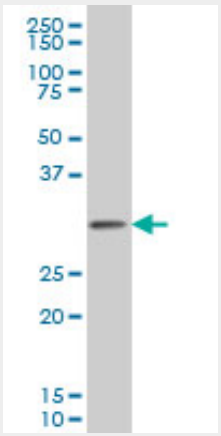
PCNA Antibody (monoclonal) (M04) - Images



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



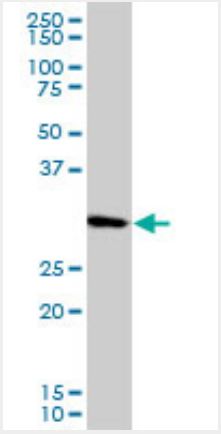
PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in PC-12 ((Cat # AT3237a)



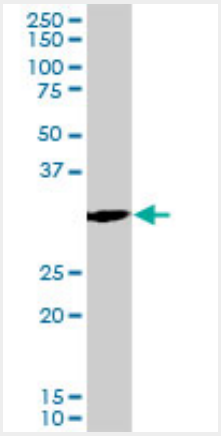
PCNA monoclonal antibody (M04), clone S1 Western Blot analysis of PCNA expression in Hela S3

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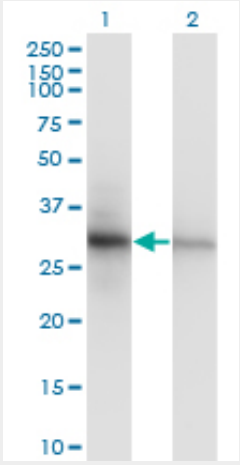
NE ((Cat # AT3237a)



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



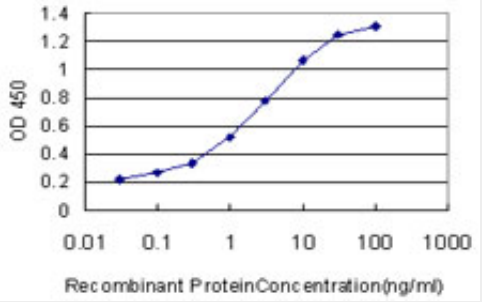
PCNA monoclonal antibody (M04), clone S1. Western Blot analysis of PCNA expression in NIH/3T3 ((Cat # AT3237a)



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.

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