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PCNA Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant PCNA.
Catalog # AT3236a

Product Information

Application	WB, IF, IP, E
Primary Accession	P12004
Other Accession	BC000491
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	1G7
Calculated MW	28769

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.

Background

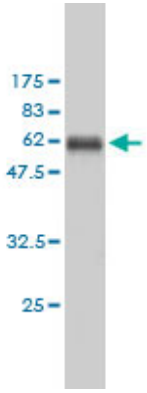
The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved 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.

References

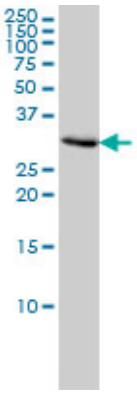
1.The RAD51-stimulatory compound RS-1 can exploit the RAD51 overexpression that exists in cancer cells and tumors.Mason JM, Logan HL, Budke B, Wu M, Pawlowski M, Weichselbaum RR, Kozikowski AP, Bishop

DK, Connell PPCancer Res. 2014 Apr 21.

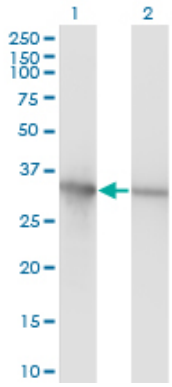
Images



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

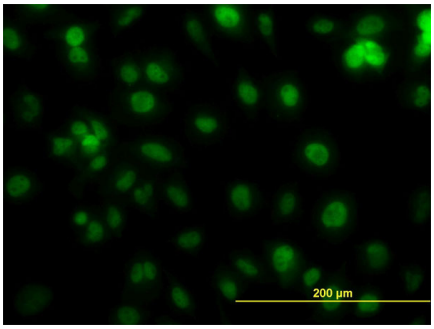


PCNA monoclonal antibody (M02), clone 1G7 Western Blot analysis of PCNA expression in Hela ((Cat # AT3236a)



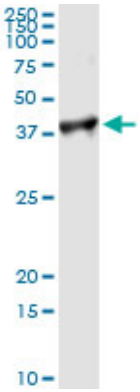
Western Blot analysis of PCNA expression in transfected 293T cell line by PCNA monoclonal antibody (M02), clone 1G7.

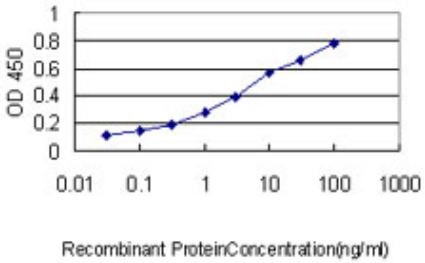
Lane 1: PCNA transfected lysate(28.8 KDa).
Lane 2: Non-transfected lysate.



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.





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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.