



# ELK Biotechnology

PCNA Mouse mAb

Catalog NO.: EM1030

For research use only.

## Overview

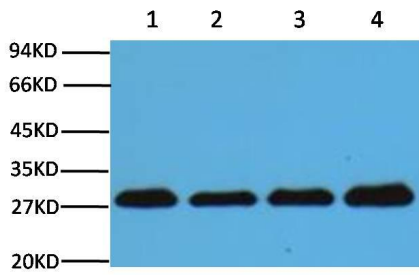
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Product name	PCNA Mouse Monoclonal antibody
Source	Mouse
Applications	<b>WB IHC</b>
Species reactivity	<b>Human Rat Mouse</b>
Recommended dilutions	<b>WesternBlot:1/5000</b> <b>Immunohistochemistry:1/200</b> <b>NOTE: Optimal dilutions should be determined by the end user.</b>
Immunogen	Synthetic Peptide
Species	Human
Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.4. Store at -20° C. Avoid repeated freeze-thaw cycles.
Isotype	IgG1
Clonality	Monoclonal
Concentration	1 mg/ml
Observed band	<b>29kDa</b>
GeneID (Human)	5111
Human Swiss-Prot No.	P12004
Cellular localization	Nucleus
Alternative Names	N/A

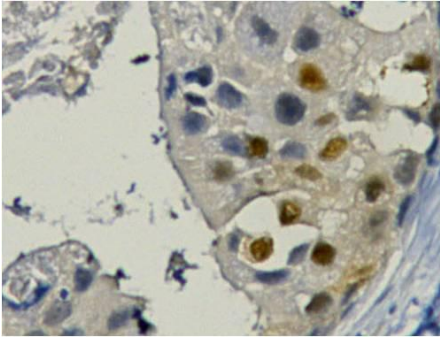
## Background

PCNA is a marker for cells in early G1 phase and S phase of the cell cycle. It is found in the nucleus and is a cofactor of DNA polymerase delta. PCNA acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage PCNA is ubiquitinated and is involved in the RAD6 dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for PCNA. Pseudogenes of this gene have been described on chromosome 4

and on the X chromosome.



Western blot analysis of HeLa (1) Rat brain (2) NIH 3T3 (3) 293T(4) with PCNA mouse mAb(12D10) diluted at:5000.



IHC staining of Human breast cancer tissue paraffin-embedded with PCNA mouse mAb (12D10) diluted at:200