

Anti-PCNA Monoclonal Antibody



<u>Catalog No.</u>	<u>Size</u>
E021050-01	100µl
E021050-02	500µl
E021050-03	50µl

Specificity	Anti-PCNA (human mouse rat)
Source	Mouse Monoclonal
Application	WB IHC IF
Form	Liquid, 1 mg/ml

Background Information

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.

Source and Purification

This monoclonal antibody is produced by immunizing mice with a synthetic peptide corresponding to an epitope of PARP coupled to KLH. Antibodies are purified by protein A affinity chromatography.

Application Notes

Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: Western blot (1:1000-1:5000), Immunofluorescence and Immunocytochemistry (1:200-1:800).

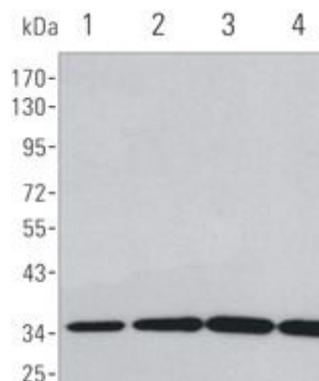
Storage Buffer

PBS, pH 7.4 with 0.05% sodium azide, 50% Glycerol.

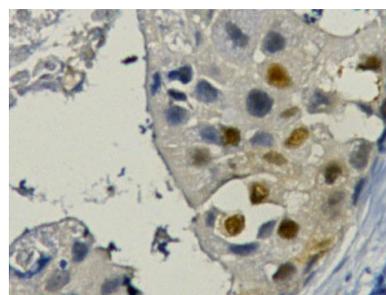
Storage Instructions

Stable for 1 year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. Aliquot will be stable at 4°C for 3 months.

Images



Lane1-4: HeLa, 293T, 549, SP2/0 1:2000



Immunohistochemistry Staining of Human breast cancer tissue paraffin-embedded with PCNA mouse mAb.