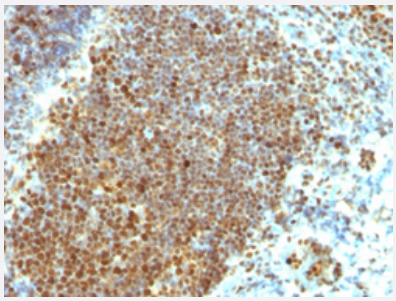
# PCNA monoclonal antibody, clone PCNA/694

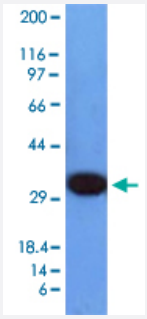
Catalog # MAB13393 Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with PCNA monoclonal antibody, clone PCNA/694 (Cat # MAB13393).




### Western Blot (Cell lysate)

Western Blot analysis of HepG2 cell lysate with PCNA monoclonal antibody, clone PCNA/694 (Cat # MAB13393).

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against full length recombinant human PCNA. |
| **Immunogen** | Recombinant protein corresponding to full length human PCNA. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 36 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A/G purification |

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| | |
|---|---|
| **Isotype** | IgG2a, kappa |
| **Recommend Usage** | Flow Cytometry (0.5-1 ug/$10^6$ cells in 0.1 mL)<br>Immunofluorescence (0.5-1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL)<br>Western Blot (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 10 mM PBS (0.05% BSA, 0.05% sodium azide). |
| **Storage Instruction** | Store at 4°C. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with PCNA monoclonal antibody, clone PCNA/694 (Cat # MAB13393).

- Immunofluorescence

- Flow Cytometry

- Western Blot (Cell lysate)

  Western Blot analysis of HepG2 cell lysate with PCNA monoclonal antibody, clone PCNA/694 (Cat # MAB13393).

## Gene Info — PCNA

| | |
|---|---|
| **Entrez GeneID** | 5111 |
| **Protein Accession#** | P12004 |
| **Gene Name** | PCNA |
| **Gene Alias** | MGC8367 |
| **Gene Description** | proliferating cell nuclear antigen |
| **Omim ID** | 176740 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase del ta. The encoded protein acts as a homotrimer and helps increase the processivity of leading stran d 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 sa me protein have been found for this gene. Pseudogenes of this gene have been described on chr omosome 4 and on the X chromosome. [provided by RefSeq |
| **Other Designations** | DNA polymerase delta auxiliary protein\|OTTHUMP00000030189\|OTTHUMP00000030190\|cyclin |

## Pathway

- Base excision repair
- Cell cycle
- DNA replication
- Mismatch repair
- Nucleotide excision repair

## Disease

- Adenocarcinoma
- Ataxia telangiectasia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Colorectal Neoplasms
- Disease Progression
- DNA Damage
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Glioma

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- Graft vs Host Disease
- Head and Neck Neoplasms
- Kidney Failure
- Laryngeal Neoplasms
- Lung Neoplasms
- Meningeal Neoplasms
- Meningioma
- Mouth Neoplasms
- Multiple Sclerosis
- Neuroma
- Ovarian Neoplasms
- Papillomavirus Infections
- Pharyngeal Neoplasms
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Werner syndrome

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