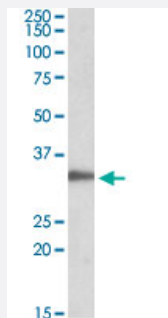


# PCNA polyclonal antibody

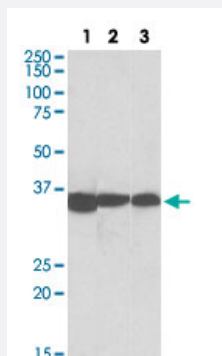
Catalog # PAB27564      Size 100 ug

## Applications



### Western Blot (Cell lysate)

PCNA polyclonal antibody (Cat # PAB27564) (0.05ug/ml) staining of Jurkat lysate. Primary incubation was 1 hour. Detected by chemiluminescence.



### Western Blot

PCNA polyclonal antibody (Cat # PAB27564) (0.05ug/ml) staining of Lane 1: NIH3T3, Lane 2: mouse testis and Lane 3: rat testis (35ug protein in RIPA). Primary incubation was 1 hour. Detected by chemiluminescence.

## Specification

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Goat polyclonal antibody raised against synthetic peptide of PCNA.                         |
| <b>Immunogen</b>            | A synthetic peptide corresponding to amino acids 111-122 at internal region of human PCNA. |
| <b>Sequence</b>             | EAPNQEKVSDYE                                                                               |
| <b>Host</b>                 | Goat                                                                                       |
| <b>Theoretical MW (kDa)</b> | 30                                                                                         |
| <b>Reactivity</b>           | Chicken, Dog, Human, Mouse, Pig, Rat                                                       |

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| Purification        | Antigen affinity purification                                                                                          |
| Concentration       | 0.5 mg/mL                                                                                                              |
| Recommend Usage     | ELISA (1:128000)<br>Western Blot (0.05-0.2ug/ml)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)                                                                  |
| Storage Instruction | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                     |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

- Western Blot (Cell lysate)

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- Western Blot

PCNA polyclonal antibody (Cat # PAB27564) (0.05ug/ml) staining of Lane 1: NIH3T3, Lane 2: mouse testis and Lane 3: rat testis (35ug protein in RIPA). Primary incubation was 1 hour. Detected by chemiluminescence.

## Gene Info — PCNA

|                    |                                    |
|--------------------|------------------------------------|
| Entrez GeneID      | <a href="#">5111</a>               |
| Protein Accession# | <a href="#">NP_002583.1</a>        |
| Gene Name          | PCNA                               |
| Gene Alias         | MGC8367                            |
| Gene Description   | proliferating cell nuclear antigen |
| Omim ID            | <a href="#">176740</a>             |
| Gene Ontology      | <a href="#">Hyperlink</a>          |

## Gene Summary

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. [provided by RefSeq]

## Other Designations

DNA polymerase delta auxiliary protein|OTTHUMP00000030189|OTTHUMP00000030190|cyclin

## Publication Reference

- [Proteomic changes associated with maternal dietary low  \$\omega\$ 6: \$\omega\$ 3 ratio in piglets supplemented with seaweed part II: Ileum proteomes.](#)

Thi Xuan Nguyen, Alessandro Agazzi, Suzanne McGill, Stefan Weidt, Quang Hanh Han, Andrea Gelemanović, Mark McLaughlin, Giovanni Savoini, Peter David Eckersall, Richard Burchmore.

Journal of Proteomics 2023 Sep; 270:104739.

Application: WB-Ce, Piglet, Piglet ileum

## 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](#)
- [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](#)