

PCNA monoclonal antibody, clone PC 10

Catalog # MAB1524

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native PCNA.
Immunogen	Native purified human PCNA.
Host	Mouse
Theoretical MW (kDa)	28.7
Reactivity	Human, Mouse, Rat
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG2a
Recommend Usage	Western Blot (2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.4-1 ug/mL) Immunohistochemistry (Frozen sections) (0.4-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 1.2% sodium acetate (2 mg BSA, 0.01 mg sodium azide)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 ug/mL, store at -20°C or lower. 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
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunohistochemistry (Frozen sections)
- Immunocytochemistry

Gene Info — PCNA

Entrez GeneID [5111](#)

Gene Name PCNA

Gene Alias MGC8367

Gene Description proliferating cell nuclear antigen

Omim ID [176740](#)

Gene Ontology [Hyperlink](#)

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

- [PCNA controls establishment of sister chromatid cohesion during S phase.](#)

Moldovan GL, Pfander B, Jentsch S.
Molecular Cell 2006 Sep; 23(5):723.

Application: WB, Recombinant protein

- [Localization of the gene for human proliferating nuclear antigen/cyclin by in situ hybridization.](#)

Webb G, Parsons P, Chenevix-Trench G.
Human Genetics 1990 Nov; 86(1):84.

Application: IF, IHC, WB-Ce, WB-Tr, Human, Mammalian cells

- [Synthesis of the nuclear protein cyclin \(PCNA\) and its relationship with DNA replication.](#)

Bravo R.

Experimental Cell Research 1986 Apr; 163(2):287.

Application: IF, Mouse, NIH/3T3 cells

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](#)