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 u g/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 shoul d be handled by trained staff only.

Applications

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

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- Immunocytochemistry
- Western Blot

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 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

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

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- 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

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- 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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