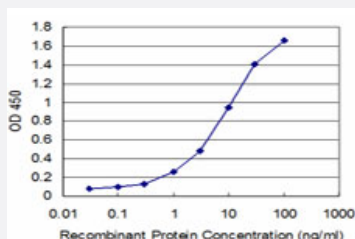


PCNA monoclonal antibody (M12), clone 3B1

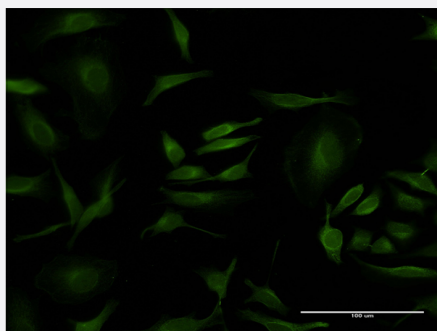
Catalog # H00005111-M12 Size 100 ug

Applications



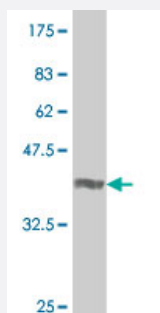
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PCNA is approximately 0.3ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PCNA on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant PCNA.

Immunogen	PCNA (NP_002583, 78 a.a. ~ 177 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	ILKCAGNEDITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDL DVEQLGIPEQEYSCVVKMPSGE FARICRDL SHIGDAVVISCAKDGVKFSASGELGN
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PCNA is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PCNA on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — PCNA

Entrez GeneID	5111
GeneBank Accession#	NM_002592
Protein Accession#	NP_002583
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

- [Multimodal Imaging under Artificial Intelligence Algorithm for the Diagnosis of Liver Cancer and Its Relationship with Expressions of EZH2 and p57.](#)

Yamin Zhang, Jie Cui, Wei Wan, and Jinpeng Liu

Computational Intelligence and Neuroscience 2022 Mar; 2022:4081654.

Application: IHC-P, Human, Human liver carcinoma

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](#)