



PCNA Monoclonal Antibody(12D10), AbFluor™ 405 Conjugated

Catalog No	BYab-04644
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;IF;IHC
Gene Name	PCNA
Protein Name	Proliferating cell nuclear antigen
Immunogen	
Specificity	PCNA Monoclonal Antibody(12D10) AbFluor™ 405 Conjugated specially designed for your Immunofluorescence analysis.
Formulation	Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.
Source	Monoclonal, Mouse IgG1
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC: 1:200, IF 1:200.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PCNA; Proliferating cell nuclear antigen; PCNA; Cyclin
Observed Band	30-33kd
Cell Pathway	Nucleus . Colocalizes with CREBBP, EP300 and POLD1 to sites of DNA damage (PubMed:24939902). Forms nuclear foci representing sites of ongoing DNA replication and vary in morphology and number during S phase (PubMed:15543136). Co-localizes with SMARCA5/SNF2H and BAZ1B/WSTF at replication foci during S phase (PubMed:15543136). Together with APEX2, is redistributed in discrete nuclear foci in presence of oxidative DNA damaging agents. .
Tissue Specificity	Bone marrow,Fetal brain cortex,Lung,Placenta,
Function	disease:Antibodies are present in sera from patients with systemic lupus erythematosus.,function:This protein is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the

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polymerase's processibility during elongation of the leading strand.,online information:PCNA entry,PTM:Upon methyl methanesulfonate-induced DNA damage, mono-ubiquitinated by the UBE2B-RAD18 complex on Lys-164. This induces non-canonical poly-ubiquitination on Lys-164 through 'Lys-63' linkage of ubiquitin moieties by the E2 complex UBE2N-UBE2V2 and the E3 ligases RNF8 and SHPRH, which are required for DNA repair.,similarity:Belongs to the PCNA family.,subunit:Homotrimer. Interacts with KCTD10. Interacts with PPP1R15A (By similarity). Forms a complex with activator 1 heteropentamer in the presence of ATP. Interacts with POLH, POLK, DNMT1, ERCC5/XPG, FEN1, C

Background

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, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images