PCNA (12D10) Mouse mAb (Cy5)

CatalogNo: YM2137

Key Features

Host Species	Reactivity	Applications
• Mouse	• Human,Mouse,Rat	• WB,IF,IHC
MW	**Isotype**	**Conjugate**
• 30-33kD (Observed)	• IgG1	• Cy5

Recommended Dilution Ratios

Optimal working dilutions should be determined experimentally by the investigator
Suggested starting dilutions are as follows:IHC 1:200
IF 1:200.

Storage

Storage*	Stable for one year at -15°C to -25°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. Store in dark.
Formulation	Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.

Basic Information

Clonality	Monoclonal
Clone Number	12D10

Immunogen Information

Specificity	PCNA Monoclonal Antibody(12D10) Cy5 Conjugated specially designed for your Immunofluorescence analysis.

Target Information

Gene name PCNA

Protein Name Proliferating cell nuclear antigen

Organism	Gene ID	UniProt ID
Human	5111;	P12004;
Mouse	18538;	P17918;
Rat	25737;	P04961;

Cellular Localization 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 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, CDC6, APEX2 and POLDIP2. Interacts with EXO1 and SHPRH. Forms a ternary complex with DNTTIP2 and core histone. Interacts with POLD1, POLD3 and POLD4. Interacts with BAZ1B/WSTF; the interaction is direct.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
PCNA (12D10) Mouse mAb (Cy5)