

PCNA (12D10) Mouse mAb (HRP)

CatalogNo: YM2139

Key Features

Host Species • Mouse	ReactivityHuman,Mouse,Rat	ApplicationsWB,IF,IHC
MW	Isotype	Conjugate
• 30-33kD (Observed)	• IgG1	• HRP

Recommended Dilution Ratios

Optimal working dilutions should be determined experimentally by the investigator Suggested starting dilutions are as follows:WB 1:5000 IHC 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.
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) HRP Conjugated, specially designed for your Western blot analysis.

Target Information

Gene name PCNA

Protein Name

Proliferating cell nuclear antigen

	<i>J</i> = · · ·	
Organism	Gene ID	UniProt ID
Human	<u>5111;</u>	<u>P12004;</u>
Mouse	<u>18538;</u>	<u>P17918;</u>
Rat	<u>25737;</u>	<u>P04961;</u>

CellularNucleus . 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,

FunctionDisease: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 PP1R15A
(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

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information: PCNA (12D10) Mouse mAb (HRP) For Research Use Only. Not for Use in Diagnostic Procedures.

Immunoway - 3 / 3