

PCNA (R545Y) Rabbit mAb

CatalogNo: AR0103

Recombinant FSS™

•Main information

| | |
|---------------------|--------------------------------------|
| Target | PCNA |
| Reactivity | Human,Mouse,Rat |
| Applications | WB,IHC,IF,IP,ELISA |
| MW (kDa) | 29kD (Calculated) 36kD (Observed) |
| Host Species | Rabbit |
| Isotype | IgG,Kappa |

•Recommended Dilutions

| |
|---|
| IHC 1:1000-1:4000 |
| WB 1:1000-1:5000 |
| IF 1:200-1:1000 |
| ELISA 1:5000-1:20000 |
| IP 1:50-1:200, Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011) |

•Detailed information

| | |
|---------------------|---|
| Specificity | Endogenous |
| Storage | -15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag) |
| Formulation | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |
| Purification | Protein A |
| Clonality | Monoclonal |
| Clone Number | R545Y |

•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 ; |

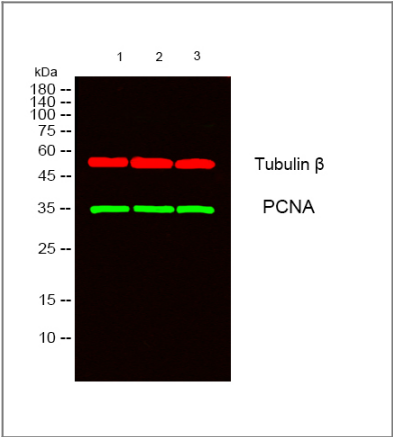
Cellular Localization Nucleus

Tissue specificity Tonsil/ Colon

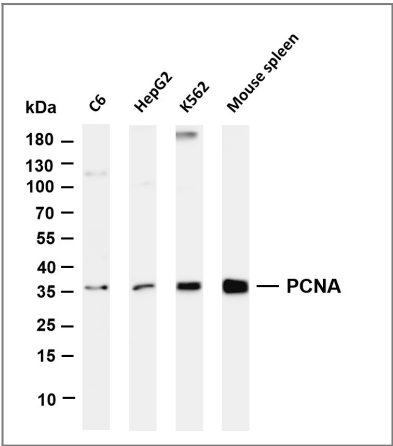
Function

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.,

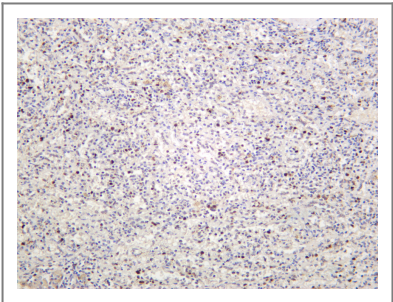
•Validation Data



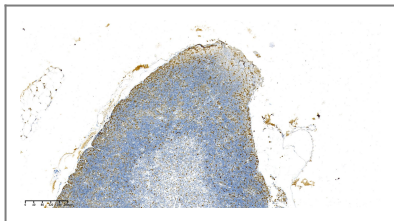
Western blot analysis of lysates from 1) HepG2, 2) HuvEC, 3) COS7 cells, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) Tubulin β Monoclonal Antibody antibody was diluted at 1:5000 as loading control, 4°C over night, secondary antibody was diluted at 1:10000, 37°C 1hour.



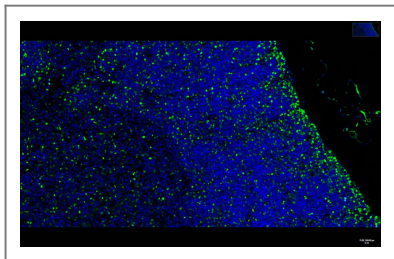
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PCNA antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1:C6 Lane 2: HepG2 Lane 3: K562 Lane 4: Mouse spleen Predicted band size: 29kDa Observed band size: 36kDa



Human spleen was stained with anti-PCNA rabbit antibody



Mouse thymus was stained with anti-PCNA Rabbit antibody



Mouse thymus was stained with anti-PCNA Rabbit antibody

•Contact information

Orders: order@lamarck.cn
Support: support@lamarck.cn
Telephone: 400-801-6722
Website: <http://www.Lamarck.com>
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Please scan the QR code
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product information:
PCNA (R545Y)
Rabbit mAb

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