



# PCNA Rabbit mAb

|                                    |  |
|------------------------------------|--|
| <b>Catalog No</b>                  | YP-rAb-17973   |
| <b>Isotype</b>                     | IgG  |
| <b>Reactivity</b>                  | Human,Mouse,Rat,Rabbit,Dog,Duck  |
| <b>Applications</b>                | WB,IHC,IF,IP,ELISA   |
| <b>Gene Name</b>                   | PCNA   |
| <b>Protein Name</b>                | Proliferating cell nuclear antigen   |
| <b>Purification Process</b>        | Protein A  |
| <b>Specificity</b>                 | Endogenous   |
| <b>Formulation</b>                 | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA   |
| <b>Source</b>                      | Monoclonal, Rabbit,IgG   |
| <b>Dilution</b>                    | 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   |
| <b>Concentration</b>               | 0.5 mg/ml  |
| <b>Purity</b>                      | ≥90%   |
| <b>Storage Stability</b>           | -15° C to -25° C/1 year(Do not lower than -25° C)  |
| <b>Synonyms</b>                    | ATLD2 ; cb16 ; Cyclin ; DNA polymerase delta auxiliary protein ; etID36690.10 ; fa28e03 ; fb36g03 ; HGCN8729 ; MGC8367 ; Mutagen-sensitive 209 protein ; OTTHUMP00000030189 ; OTTHUMP00000030190 ; PCNA ; Pcna/cyclin ; PCNA_HUMAN ; PCNAR ; Polymerase delta accessory protein ; Proliferating cell nuclear antigen ; wu:fa28e03 ; wu:fb36g03   |
| <b>Observed Band</b>               | 36kD   |
| <b>Calculated Molecular Weight</b> | 29kD   |
| <b>Cell Pathway</b>                | Nucleus  |
| <b>Tissue Specificity</b>          | Tonsil/ Colon  |
| <b>Function</b>                    | 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.,

### Background

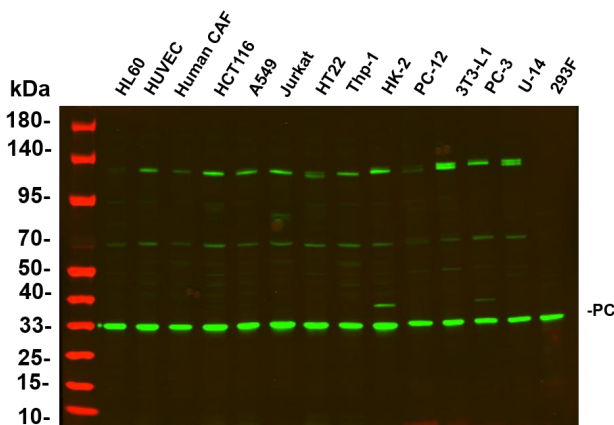
The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved 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

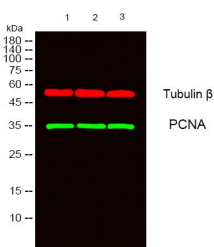
Avoid repeated freezing and thawing!

### Usage suggestions

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

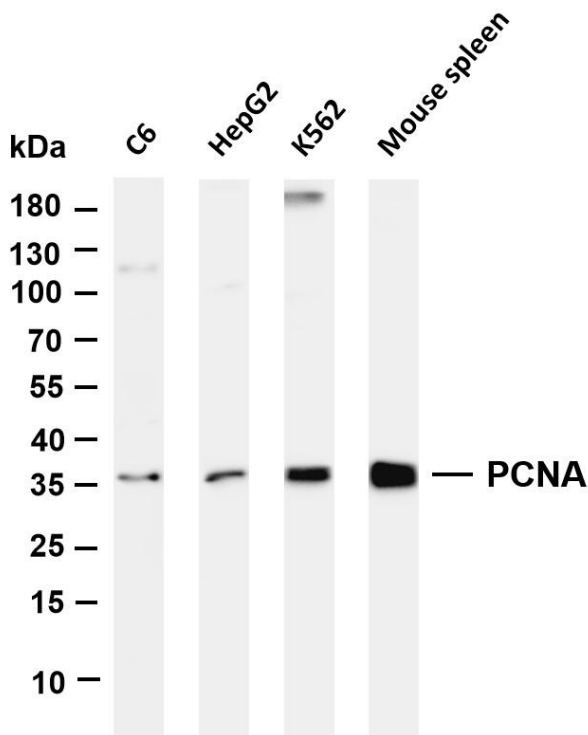


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody

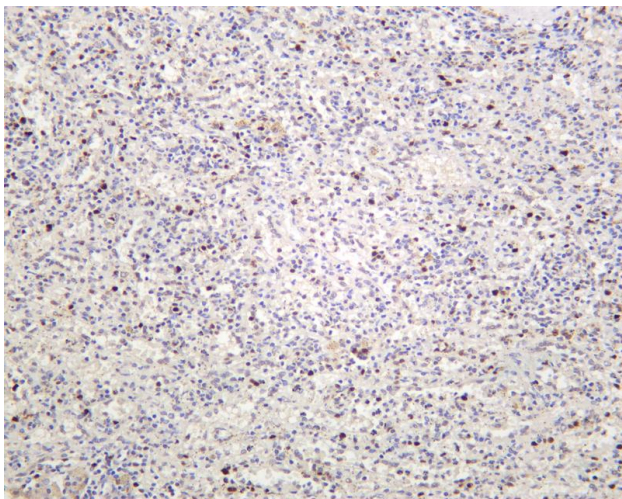


Western blot analysis of lysates from 1) HepG2, 2) HuvEC, 3) COS7 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody

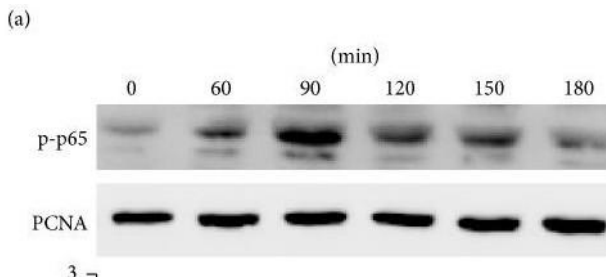




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PCNA antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HepG2 Lane 3: K562 Lane 4: Mouse spleen Predicted band size: 29kDa Observed band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



Human spleen was stained with anti-PCNA rabbit antibody



Yan, Jinchuan, et al. "CD137 regulates NFATc1 expression in mouse VSMCs through TRAF6/NF- $\kappa$ B p65 signaling pathway." Mediators of inflammation 2015 (2015).

