

Product datasheet for TA800875

PCNA Mouse Monoclonal Antibody [Clone ID: OTI2G7]

Product data:

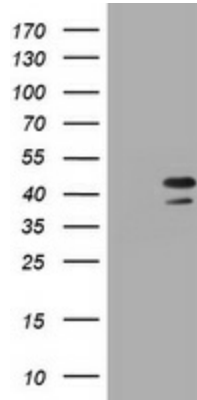
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|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI2G7 |
| Applications: | IF, WB |
| Recommended Dilution: | WB 1:2000, IF 1:50 |
| Reactivity: | Human, Monkey, Mouse, Rat, Dog |
| Host: | Mouse |
| Isotype: | IgG2b |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human PCNA (NP_002583) produced in E.coli. |
| Formulation: | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 28.6 kDa |
| Gene Name: | proliferating cell nuclear antigen |
| Database Link: | NP_002583 Entrez Gene 18538 Mouse Entrez Gene 25737 Rat Entrez Gene 477166 Dog Entrez Gene 718006 Monkey Entrez Gene 5111 Human |
| 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] |



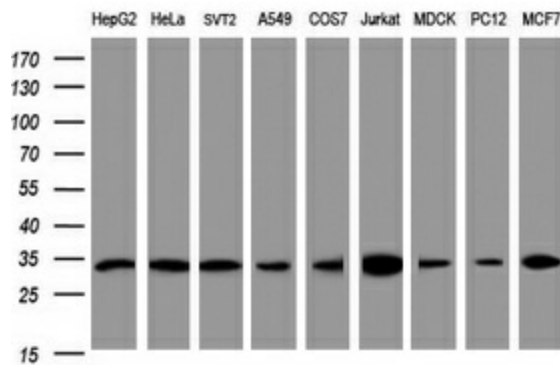
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Synonyms: ATLD2
Protein Families: Druggable Genome, Stem cell - Pluripotency
Protein Pathways: Base excision repair, Cell cycle, DNA replication, Mismatch repair, Nucleotide excision repair

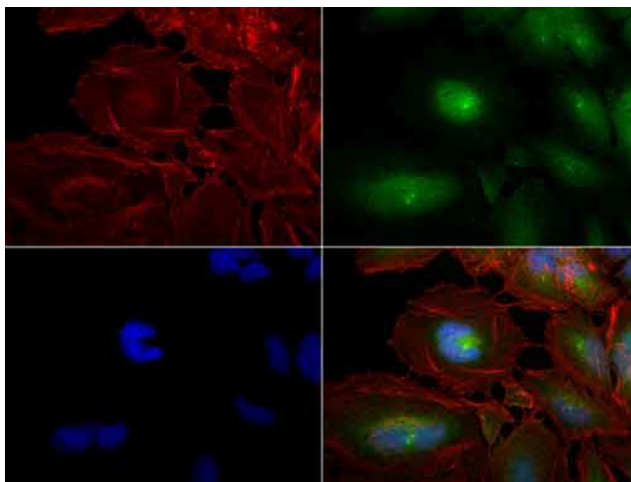
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PCNA ([RC201741], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PCNA. Positive lysates [LY400929] (100ug) and [LC400929] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PCNA monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Immunofluorescent staining of HeLa cells using anti-PCNA mouse monoclonal antibody (TA800875, green, 1:50). Actin filaments were labeled with Alexa Fluor 594 Phalloidin (red), and nuclear with DAPI (blue).