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Product datasheet for TA800875

PCNA Mouse Monoclonal Antibody [Clone ID: OTI2G7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2G7
Applications:	IF, WB
Recommended Dilution:	WB 1:2000, IF 1:50
Reactivity:	Human, Mouse, Rat, Monkey, 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 MouseEntrez Gene 25737 RatEntrez Gene 477166 DogEntrez Gene 718006 MonkeyEntrez Gene 5111 Human P12004

View online »

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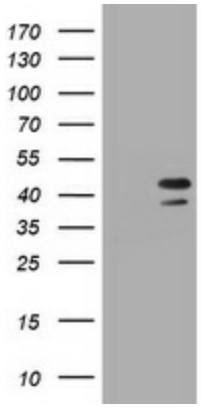
Background: The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and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

Synonyms: ATLD2

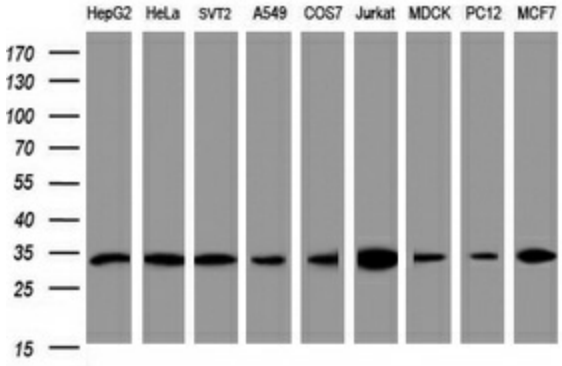
Protein Families: Druggable Genome, Stem cell - Pluripotency

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).

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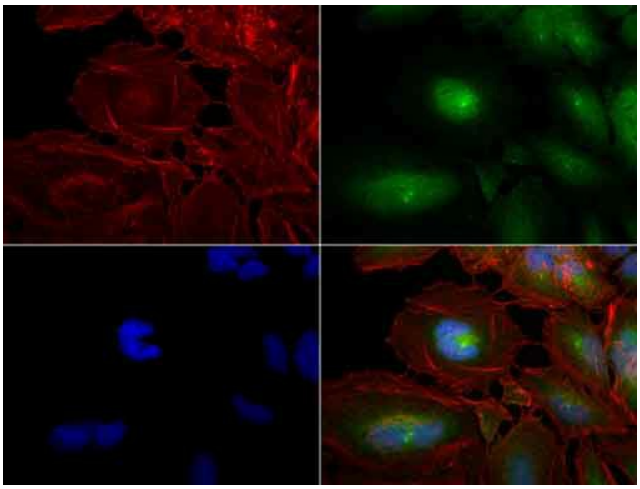

Immunofluorescent staining of HeLa cells using anti-PCNA mouse monoclonal antibody (TA800875, green, 1:50). Actin filaments were labeled with Alexa Fluor 594 Phalloidin (red), and nuclear with DAPI (blue).

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