

## Product datasheet for **TA800875BM**

### PCNA Mouse Monoclonal Antibody (HRP conjugated) [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.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
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:	<a href="#">NP_002583</a> <a href="#">Entrez Gene 18538 Mouse</a> <a href="#">Entrez Gene 25737 Rat</a> <a href="#">Entrez Gene 477166 Dog</a> <a href="#">Entrez Gene 718006 Monkey</a> <a href="#">Entrez Gene 5111 Human</a> <a href="#">P12004</a>



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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

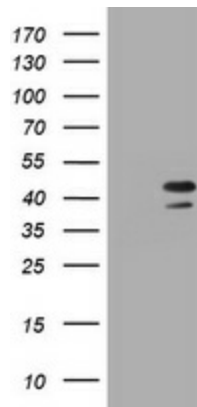
**Protein Families:**

Druggable Genome, Stem cell - Pluripotency

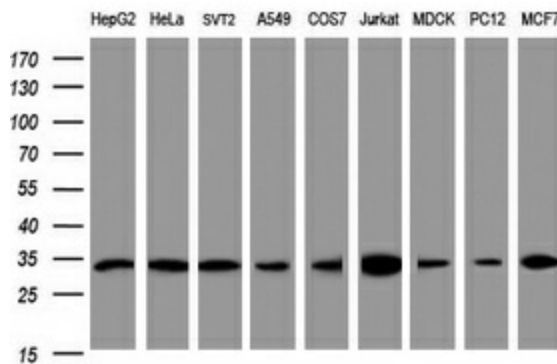
**Protein Pathways:**

Base excision repair, Cell cycle, DNA replication, Mismatch repair, Nucleotide excision repair

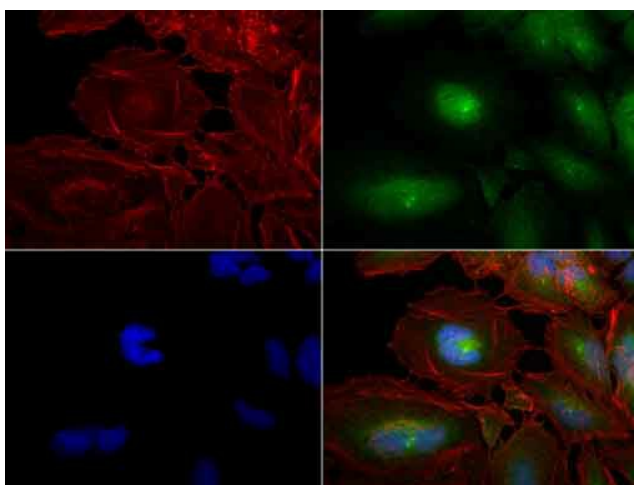
**Product images:**



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).



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).