

Basic Information

Product Name	Anti-PCNA Antibody (Clone#OTI4G3)
Gene Name	PCNA
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse, rat
Tested Application	IHC, WB
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Full length human recombinant protein of human PCNA (NP_002583) produced in E.coli.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	28.6 kDa
Dilution Ratios	Western blot (WB): 1:2000 Immunohistochemistry (IHC):1:150

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

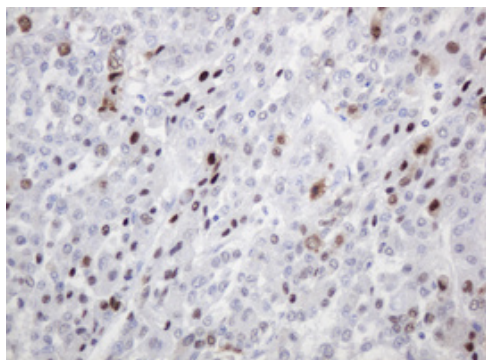
Background Information

Proliferating cell nuclear antigen (PCNA) is a DNA clamp that acts as a processivity factor for DNA polymerase δ in eukaryotic cells and is essential for replication. It is mapped to 20p12.3. 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.

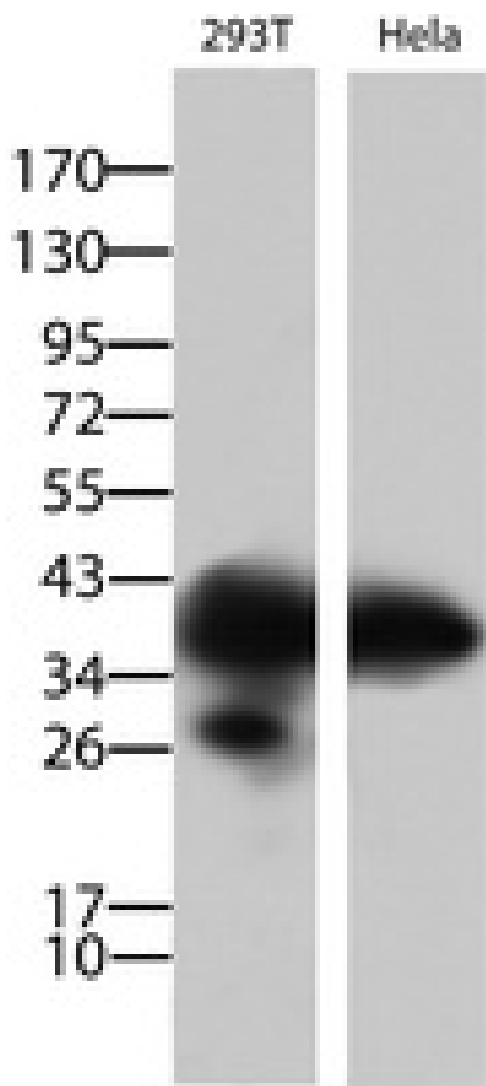
Reference

Anti-PCNA Antibody (Clone#OTI4G3)被引用在6文献中。

Selected Validation Data



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-PCNA mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, M00125-4)



Western blot analysis of extracts (15ug) from 2 different cell lines by using anti-PCNA monoclonal antibody (293T, left lane; HeLa, right lane). Dilution: 1:2000