Catalog # 5111-RBM14
Product Datasheet

Recombinant PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker) Antibody

Rabbit Monoclonal Antibody [Clone PCNA/13988R]

Catalog No	Format	Size
5111-RBM14-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5111-RBM14-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5111-RBM14-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

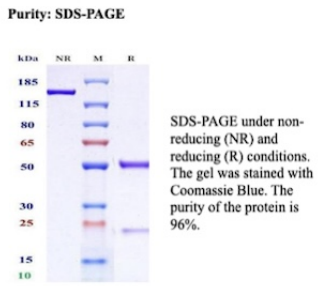
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	PCNA/13988R
Immunogen	Rat PCNA/Protein A fusion protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	28.77kDa
Cellular Localization	Nucleus
Species Reactivity	Human

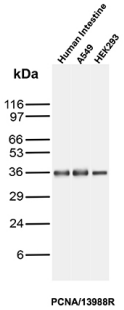
**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker) Antibody



SDS-PAGE under non-reducing (NR) and reducing (R) conditions. The gel was stained with Coomassie Blue. The purity of the protein is 96%.

SDS-PAGE Analysis of Purified Recombinant Proliferating cell nuclear antigen / PCNA Rabbit Monoclonal Antibody (PCNA/13988R). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of human intestine tissue lysates and A549 and HEK293 cell lysates using PCNA Recombinant Rabbit Monoclonal Antibody (PCNA/13988R).

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Specificity & Comments

Auxiliary protein of DNA polymerase delta and epsilon, is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand (PubMed:35585232). Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways (PubMed:24939902). Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while 'Lys-63'-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion (PubMed:24695737).

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.