

For Research Use Only

Lamin B1 Polyclonal antibody

Catalog Number: 12987-1-AP **639 Publications**



Basic Information

Catalog Number: 12987-1-AP	GenBank Accession Number: BC012295	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4001	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: lamin B1	IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG	Calculated MW: 66 kDa	
Immunogen Catalog Number: AG3631	Observed MW: 66-70 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: ChIP, IF, IHC, WB	WB: HeLa cells, U-937 cells, mouse spleen tissue, mouse pancreas tissue, mouse lung tissue, SH-SY5Y cells, K-562 cells, Y79 cells, mouse eye tissue, mouse kidney tissue, NIH/3T3 cells
Species Specificity: human, mouse, rat	IP: HeLa cells,
Cited Species: Bombyx mori, canine, chicken, hamster, human, mouse, pig, rat	IHC: human liver cancer tissue, human colon cancer tissue, human kidney tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF: HepG2 cells, human skin cancer tissue, NIH/3T3 cells

Background Information

Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin. The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Vertebrate lamins consist of two types, A and B. This gene encodes one of the two B type proteins, B1. Expression of uncleavable mutant lamin A or B caused significant delays in the onset of chromatin condensation and nuclear shrinkage during apoptosis (PMID:11953316). This protein is not suitable for samples where the nuclear envelope has been removed.

Notable Publications

Author	Pubmed ID	Journal	Application
Liqun Xu	34638868	Int J Mol Sci	WB
Kaili Liu	33007707	Transl Oncol	WB
Praveen K Dubey	34581943	Mol Cell Biochem	WB

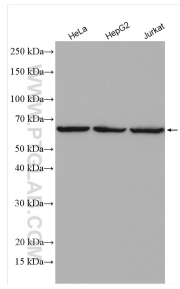
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

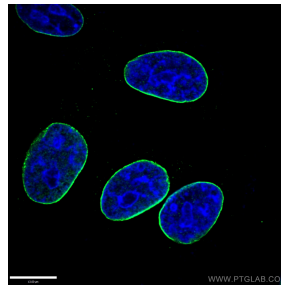
For technical support and original validation data for this product please contact:
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Selected Validation Data



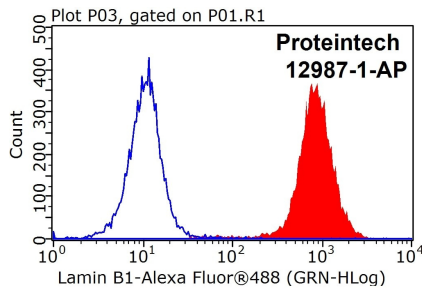
Various lysates were subjected to SDS PAGE followed by western blot with 12987-1-AP (Lamin B1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



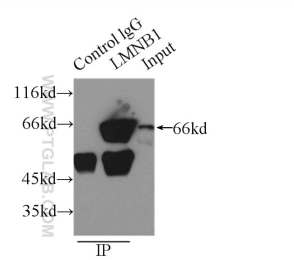
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 12987-1-AP (Lamin B1 antibody) at dilution of 1:200 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ HEK-293 cells were stained with 0.2ug Lamin B1 antibody (12987-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). FITC-Goat anti-Rabbit IgG with dilution 1:100.



IP Result of anti-LMNB1 (IP:12987-1-AP, 3ug; Detection:12987-1-AP 1:1000) with HeLa cells lysate 2500ug.