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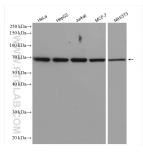
Lamin B1 Polyclonal antibody Catalog Number:12987-1-AP Featured Product 1227

Featured Product 1227 Publications

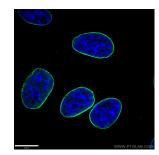


Basic Information	Catalog Number: 12987-1-AP	GenBank Accession Number: BC012295		Purification Method: Antigen affinity purification				
	Size: 150ul , Concentration: 700 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG3631	GenelD (NCBI): 4001 ENSEMBL Gene ID: ENSGO0000113368 UNIPROT ID: P20700 Full Name: lamin B1 Calculated MW: 66 kDa Observed MW: 66-70 kDa		Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 IF-P 1:50-1:500 IF/ICC 1:200-1:800				
Applications	Tested Applications: WB, IHC, IF/ICC, IF-P, FC (Intra), IP, E	HC IF/ICC IF-D FC (Intra) ID FUSA		tive Controls: HeLa cells, U-937 cells, mouse spleen tissue, K-				
	Cited Applications: WB, IHC, IF, IP, ChIP Species Specificity: human, mouse, rat Cited Species: human, mouse, rat, pig, canine, monkey, chicken, bovine, hamster, bombyx mori		 562 cells, Y79 cells, mouse pancreas tissue, SH-SY5Y cells, mouse kidney tissue, mouse lung tissue, mouse eye tissue, HepG2 cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells, RAW 264.7 cells IP : HeLa cells, IHC : mouse heart tissue, human kidney tissue, human liver cancer tissue, human colon tissue, mouse kidney 					
					Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati			
					retrieval may be performed with <mark>citrate</mark> buffer pH 6.0		IF/ICC : 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 causer 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 Pul	bmed ID Jour	nal	Application			
Liqun Xu 344		638868 Int J	Mol Sci	WB				
Kaili Liu 330		007707 Tran	sl Oncol	WB				
Praveen K Dubey 34		581943 Mol	Cell Biochem	WB				
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	0% glycerol, pH7.3						
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	storage						
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com			exclusively available under Proteintech nd is not available to purchase from any turer.				

Selected Validation Data



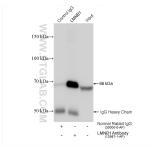
Various lysates were subjected to SDS PAGE followed by western blot with 12987-1-AP (Lamin B1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



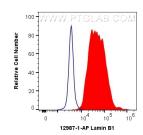
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 12987-1-AP (Lamin B1 antibody) at dilution of 1:200 and Alexa Fluor 488conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



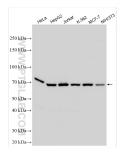
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Lamin B1 (IP:12987-1-AP, 4ug; Detection:12987-1-AP 1:20000) with HeLa cells lysate 1560 ug.



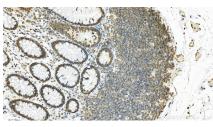
1X10^6 HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human Lamin B1 (12987-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



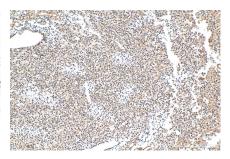
Various lysates were subjected to SDS PAGE followed by western blot with 12987-1-AP (Lamin B1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human normal colon slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

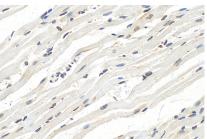


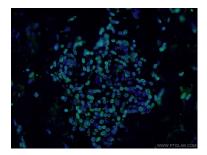
Immunohistochemical analysis of paraffinembedded human normal colon slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

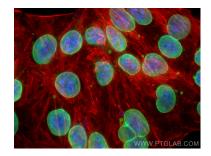






Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 12987-1-AP (Lamin B1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed human skin cancer tissue using 12987-1-AP (Lamin B1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Lamin B1 antibody (12987-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).