For Research Use Only

Lamin A/C Polyclonal antibody

Catalog Number:10298-1-AP

Featured Product

251 Publications



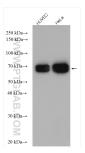
Basic Information	Catalog Number: 10298-1-AP	GenBank Accession Number: BC003162		Purification Method: Antigen affinity purification	
	Concentration:	GeneID (NCBI):		Recommended Dilutions: WB 1:5000-1:50000	
	700 ug/ml	4000			
	Source: Rabbit	ENSEMBL Gene ID: ENSG00000160789 UNIPROT ID: P02545		IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:2000-1:8000 IF/ICC 1:400-1:1600	
	Isotype: IgG				
	Immunogen Catalog Number: AG0408	Full Name: lamin A/C			
		Calculated MW: 65 kDa			
		Observed MW: 65 kDa, 70 kDa			
Applications	Tested Applications:		Positive Con	ositive Controls:	
	Cited Applications: ovary			,31 cells, HEK-293 cells, HUVEC cells, mouse issue, SKOV-3 cells, HeLa cells, A375 cells, C6 IH/3T3 cells	
	Species Specificity:		IP : HeLa cells	s, A375 cells	
	human, mouse, rat		IHC : mouse h	neart tissue, human normal colon	
	Cited Species: human, mouse, rat, monkey, duck		IF/ICC : HepC	52 cells, HeLa cells	
	Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alterna retrieval may be performed buffer pH 6.0	tively, antigen			
Background Information	Lamin A/C is also named as LMNA or LMN1. 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. Lamin proteins are thought to be involved in nuclear stability, chromatin structure, and gene expression. The lack of lamin A/C can be as a novel marker for undifferentiated embryonic stem cells and lamin A/C expression is an early indicator of differentiation (PMID: 16179429). Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb-girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome. This protein has 4 isoforms produced by alternative splicing with the molecular weight of 74 kDa, 65 kDa, 70 kDa, and 64 kDa. This antibody can recognize 4 isoforms of Lamin A/C.				
Notable Publications	Author Pe	ubmed ID Jour	nal	Application	
			Neurodegener	WB	
			ll Biochem	WB	
	0		Commun	WB	
Storage	Storage: Store at -20°C. Stable for one year a				

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

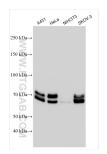
 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

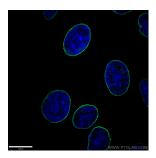
Selected Validation Data



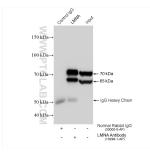
Various lysates were subjected to SDS PAGE followed by western blot with 10298-1-AP (Lamin A/C antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



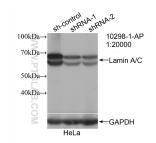
Various lysates were subjected to SDS PAGE followed by western blot with 10298-1-AP (Lamin A/C antibody) at dilution of 1:35000 incubated at room temperature for 1.5 hours.



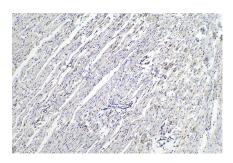
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 10298-1-AP (Lamin A/C antibody) at dilution of 1:200 and Alexa Fluor 488conjugated Goat Anti-Rabbit IgG(H+L).



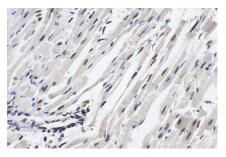
IP result of anti-Lamin A/C (IP:10298-1-AP, 4ug; Detection:10298-1-AP 1:50000) with HeLa cells lysate 1360 ug.



WB result of Lamin A/C antibody (10298-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Lamin A/C transfected HeLa cells.



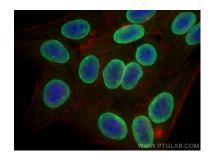
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10298-1-AP (Lamin A/C antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



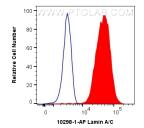
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10298-1-AP (Lamin A/C antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded normal colon slide using 10298-1-AP (Lamin A/C antibody) at dilution of 1:7000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Lamin A/C antibody (10298-1-AP) at dilution of 1:800 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10^6 HEK-293T cells were intracellularly stained with 0.4 ug Anti-Human Lamin A/C (10298-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).