For Research Use Only

Lamin A/C Polyclonal antibody

Catalog Number: 10298-1-AP

Featured Product

188 Publications

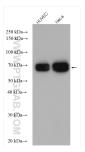


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10298-1-AP BC003162 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 700 µg/ml 4000 WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total ENSEMBL Gene ID: Source: protein lysate Rabbit ENSG00000160789 IHC 1:2000-1:8000 UNIPROT ID: Isotype: IF 1:400-1:1600 lgG P02545 Full Name: Immunogen Catalog Number: AG0408 lamin A/C Calculated MW: 65 kDa Observed MW: 65 kDa, 70 kDa **Tested Applications:** Positive Controls: **Applications** FC, IF/ICC, IHC, IP, WB, ELISA WB: A431 cells, HEK-293 cells, HUVEC cells, mouse **Cited Applications:** ovary tissue, SKOV-3 cells, HeLa cells, A375 cells, C6 WB, IP, IHC, IF cells, NIH/3T3 cells **Species Specificity:** IP : HeLa cells, A375 cells human, mouse, rat IHC : mouse heart tissue, **Cited Species:** IF : HepG2 cells, HeLa cells human, rat, mouse, monkey, duck Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **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 Pubmed ID Journal Application WB Qingyang Zhang 34551807 Mol Neurodegener Fengbo Tan 30218452 J Cell Biochem WB Yingjie Liu 34475402 Nat Commun 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

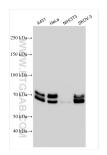
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

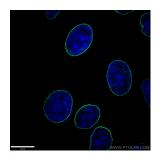
Selected Validation Data



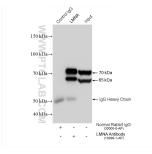
Various lysates were subjected to SDS PAGE followed by western blot with 10298-1-AP (Lamin A/C antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



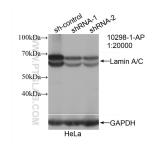
Various lysates were subjected to SDS PAGE followed by western blot with 10298-1-AP (Lamin A/C antibody) at dilution of 1:35000 incubated at room temperature for 1.5 hours.



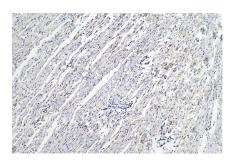
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 10298-1-AP (Lamin A/C antibody) at dilution of 1:200 and Alexa Fluor 488conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



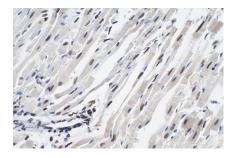
IP result of anti-Lamin A/C (IP:10298-1-AP, 4ug; Detection:10298-1-AP 1:50000) with HeLa cells lysate 1360 ug.



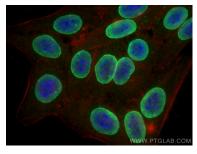
WB result of Lamin A/C antibody (10298-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Lamin A/C transfected HeLa cells.



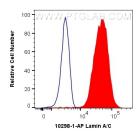
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10298-1-AP (Lamin A/C antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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 AffiniPure 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 AffiniPure 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).