## For Research Use Only

## Lamin B1 Monoclonal antibody

Catalog Number:66095-1-lg Featured Product

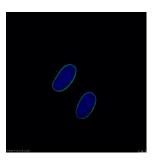
**317** Publications



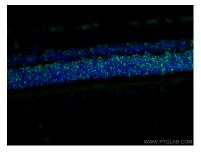
## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 66095-1-lg BC012295 Protein A purification Size: GenelD (NCBI): CloneNo.: 150ul , Concentration: 1000 $\mu g/ml$ by 4001 3C10G12 Nanodrop: ENSEMBL Gene ID: Recommended Dilutions: Source ENSG00000113368 WB 1:20000-1:100000 IP 0.5-4.0 ug for 1.0-3.0 mg of total Mouse UNIPROT ID: protein lysate Isotype: P20700 IHC 1:500-1:2000 lgG1 Full Name: IF 1:250-1:1000 Immunogen Catalog Number: lamin B1 AG20522 Calculated MW: 66 kDa **Observed MW:** 66-70 kDa **Tested Applications:** Positive Controls: **Applications** WB, IP, IF, FC, IHC, ELISA WB: NCI-H1299 cells, multi-cells/tissue, HeLa cells, **Cited Applications:** HepG2 cells, HEK-293 cells, Jurkat cells, K-562 cells, WB, IP, IF, FC, IHC, CoIP PC-12 cells, NIH/3T3 cells, 4T1cells **Species Specificity:** IP: HeLa cells. human, mouse, rat IHC : human pancreas cancer tissue, human breast **Cited Species:** cancer tissue human, rat, mouse, Rabbit, zebrafish, bovine IF : HepG2 cells, mouse eye tissue, HeLa cells 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** 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. This protein is not suitable for samples where the nuclear envelope has been removed. Notable Publications Application Author Pubmed ID Journal 34599880 Am J Pathol WB Juan M Baraias Xiangmin Zhang 36069548 J Virol WB 32998265 Int J Mol Sci WB Chie Nakashima 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 \*\*\* 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact: This product is exclusively available under Proteintech T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com Group brand and is not available to purchase from any other manufacturer.

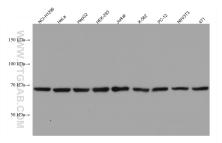
## Selected Validation Data



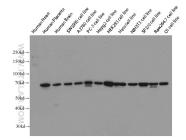
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66095-1-lg (Lamin B1 antibody) at dilution of 1:500 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using Lamin B1 antibody (66095-1-lg, Clone: 3C10G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



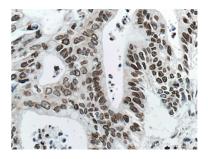
Various lysates were subjected to SDS PAGE followed by western blot with 66095-1-Ig (Lamin B1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



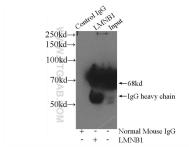
Western blot on multiple cells/tissues with anti-LMNB1 (66095-1-lg) at dilution 1:20000.



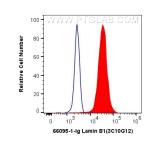
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 66095-1-Ig (Lamin B1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



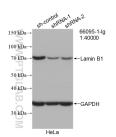
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 66095-1-Ig (Lamin B1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Lamin B1 (IP:66095-1-Ig, 4ug; Detection:66095-1-Ig 1:20000) with HeLa cells lysate 3560ug.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human Lamin B1 (66095-1-Ig, Clone:3C 10G12) and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



WB result of Lamin B1 antibody (66095-1-lg; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Lamin B1 transfected HeLa cells.