

For Research Use Only

Lamin B1 Monoclonal antibody

Catalog Number: 66095-1-Ig

Featured Product

202 Publications



Basic Information

Catalog Number: 66095-1-Ig	GenBank Accession Number: BC012295	Purification Method: Protein G purification
Size: 150ul, Concentration: 1073 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4001	CloneNo.: 3C10G12
Source: Mouse	Full Name: lamin B1	Recommended Dilutions: IP 0.5-4.0 ug for IP and 1:5000-1:50000 for WB
Isotype: IgG1	Calculated MW: 66 kDa	IHC 1:500-1:2000
Immunogen Catalog Number: AG20522	Observed MW: 66-70 kDa	IF 1:250-1:1000

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, Rabbit, rat, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IP: HeLa cells,

IHC: human pancreas cancer tissue, human breast cancer tissue

IF: HepG2 cells, mouse eye tissue, HeLa 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. This protein is not suitable for samples where the nuclear envelope has been removed.

Notable Publications

Author	Pubmed ID	Journal	Application
Juan M Barajas	34599880	Am J Pathol	WB
Chie Nakashima	32998265	Int J Mol Sci	WB
Yang Wang	34560900	J Exp Clin Cancer Res	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

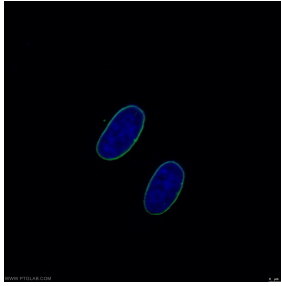
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

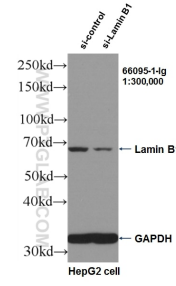
E: proteintech@ptglab.com
W: ptglab.com

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

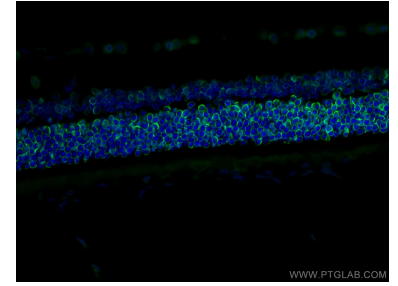
Selected Validation Data



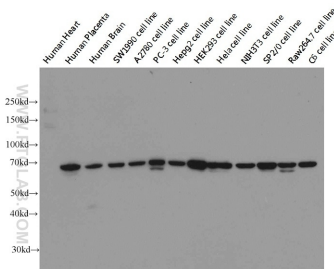
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66095-1-Ig (Lamin B1 antibody) at dilution of 1:500 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



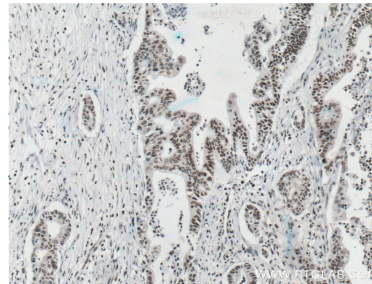
WB result of Lamin B1 antibody (66095-1-Ig, 1:300,000) with si-Control and si-Lamin B1 transfected HepG2 cells.



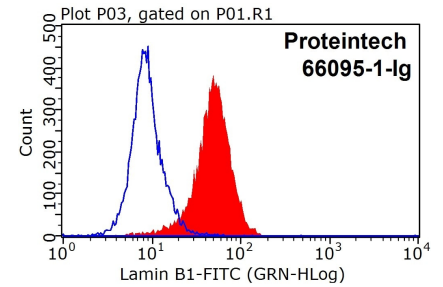
Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using Lamin B1 antibody (66095-1-Ig, Clone: 3C10G12) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



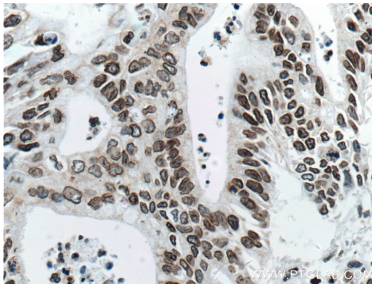
Western blot on multiple cells/tissues with anti-LMN B1 (66095-1-Ig) at dilution 1:20000.



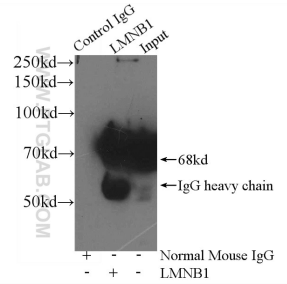
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66095-1-Ig (Lamin B1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ HeLa cells were stained with 0.2ug Lamin B1 antibody (66095-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). FITC-Goat anti-Mouse IgG with dilution 1:100.



Immunohistochemical analysis of paraffin-embedded 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.