For Research Use Only

Lamin B2 Polyclonal antibody

Catalog Number:10895-1-AP Featured Product 21 Publications

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Basic Information

Catalog Number:
10895-1-AP

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop and 400 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1335

GenBank Accession Number:
BC006551

GeneID (NCBI):
84823

Full Name:
lamin B2

Calculated MW:
68 kDa

Observed MW:
66-68 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

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

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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:

WB : HepG2 cells, Jurkat cells, Raji cells, mouse brain tissue

IP : Jurkat cells,

IHC : human lung cancer tissue, human colon cancer tissue

IF : HepG2 cells, SH-SY5Y cells

Background Information

Lamins are nuclear membrane structural components that are important in structural integrity of the nucleus and may also interact with chromatin (PMID: 33033404). Research studies show that lamin B2 knockout mice exhibit neuronal developmental defects and that both proteins are essential for typical brain development (PMID: 20145110). Mutations in Lamin B2 can result in a susceptibility to developing acquired partial lipodystrophy, a rare disorder characterized by the progressive loss of subcutaneous fat in a bilaterally symmetrical fashion (PMID: 16826530).

Notable Publications

Author	Pubmed ID	Journal	Application
Ralf Willebrand	30183074	Eur J Immunol	WB
Huanhuan Sha	36266920	Cancer Med	WB
Ziying Wei	34721038	Front Pharmacol	WB

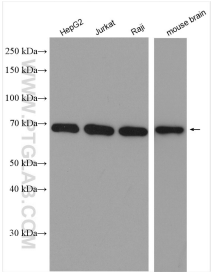
Storage

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

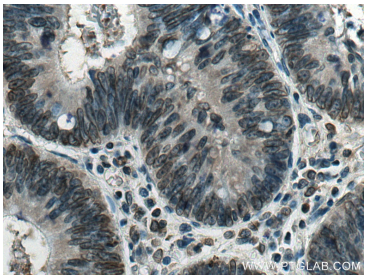
*** 20ul sizes contain 0.1% BSA

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

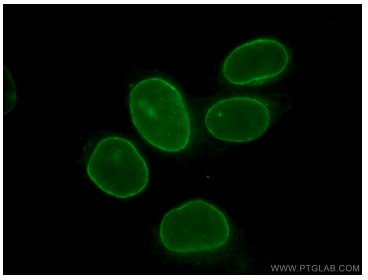
Selected Validation Data



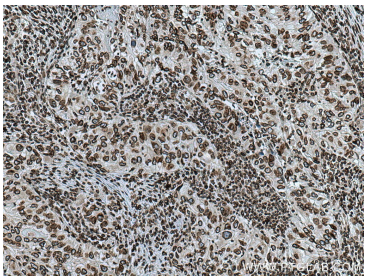
Various lysates were subjected to SDS PAGE followed by western blot with 10895-1-AP (LMNB2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



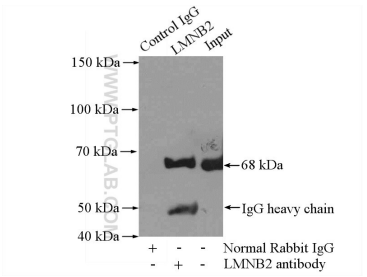
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10895-1-AP (LMNB2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



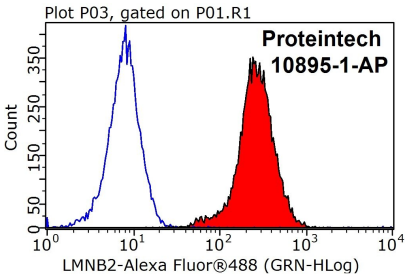
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 10895-1-AP (LMNB2 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10895-1-AP (LMNB2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-LMNB2 (IP:10895-1-AP, 3ug; Detection:10895-1-AP 1:500) with Jurkat cells lysate 2400ug.



1X10^6 HEK-293T cells were stained with 0.2ug LMNB2 antibody (10895-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.