For Research Use Only

Lamin B2 Polyclonal antibody

Catalog Number:10895-1-AP Featured Product 28 Publications

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Basic Information

Catalog Number:
10895-1-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1335

GenBank Accession Number:
BC006551

GeneID (NCBI):
84823

UNIPROT ID:
Q03252

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 1.0-3.0 mg of total protein lysate
IHC 1:200-1:1600
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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 tissue, human colon cancer tissue

IF/ICC : Caco-2 cells, SH-SY5Y cells, HepG2 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

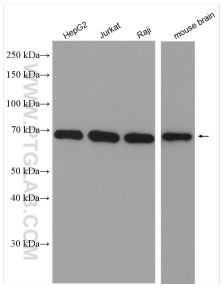
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

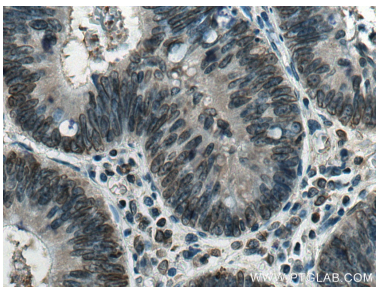
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

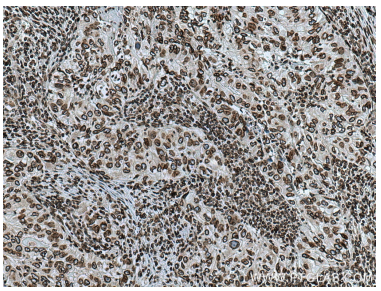
Selected Validation Data



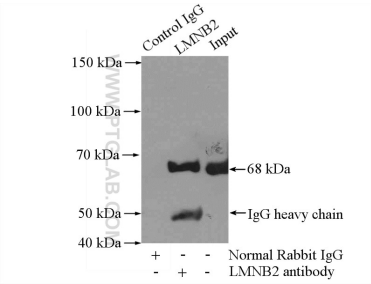
Various lysates were subjected to SDS PAGE followed by western blot with 10895-1-AP (LMNB2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



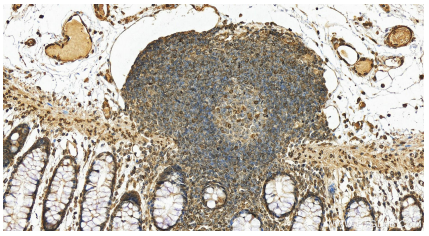
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10895-1-AP (LMNB2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



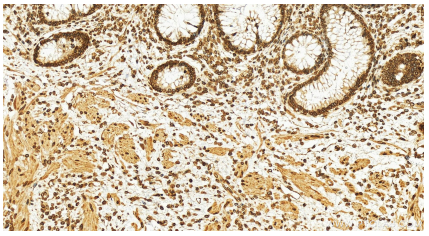
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10895-1-AP (LMNB2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Lamin B2 (IP:10895-1-AP, 3ug; Detection:10895-1-AP 1:500) with Jurkat cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10895-1-AP (Lamin B2 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10895-1-AP (Lamin B2 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using Lamin B2 antibody (10895-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).