

For Research Use Only

LBR Polyclonal antibody

Catalog Number: 12398-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

12398-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3088

GenBank Accession Number:

BC020079

GeneID (NCBI):

3930

UNIPROT ID:

Q14739

Full Name:

lamin B receptor

Calculated MW:

615 aa, 71 kDa

Observed MW:

58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF/ICC 1:300-1:1200

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IF, IP, ColP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, 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: HEK-293 cells, A375 cells, C2C12 cells, HAP1 cells, human brain tissue, HeLa cells, HepG2 cells

IP: A375 cells,

IHC: human skin cancer tissue,

IF/ICC: HeLa cells, HepG2 cells, C6 cells

Background Information

Lamin-B receptor (LBR) is an integral membrane protein of the inner nuclear membrane that contains a hydrophilic N-terminal end protruding into the nucleoplasm, eight hydrophobic segments that span the membrane and a short, nucleoplasmic C-terminal tail (PMID: 28858257). LBR anchors the lamina and the heterochromatin to the inner nuclear membrane (PMID: 10828963; 28858257). It is also essential for cholesterol synthesis (PMID: 27336722). Mutations of the LBR gene have been associated with autosomal recessive HEM/Greenberg skeletal dysplasia and Pelger-Huët anomaly and Greenberg skeletal dysplasia (PMID: 12618959; 12490533). The calculated molecular mass of LBR is 71 kDa, which is larger than the apparent molecular mass of 58 kDa, probably due to the aberrant migration of membrane proteins subjected to SDS-PAGE (PMID: 2847165; 2170422).

Notable Publications

Author	Pubmed ID	Journal	Application
Qiong Wu	35698159	J Exp Clin Cancer Res	WB
Aurelio Reyes	32735630	PLoS Genet	WB
Zhe Xu	35809814	Transpl Immunol	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

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

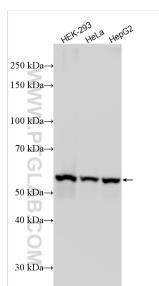
T: 4006900926

E: Proteintech-CN@ptglab.com

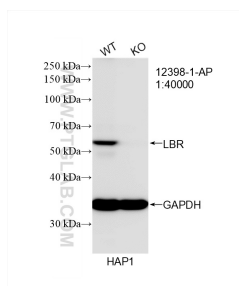
W: ptgcn.com

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

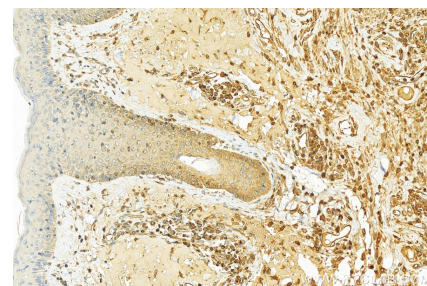
Selected Validation Data



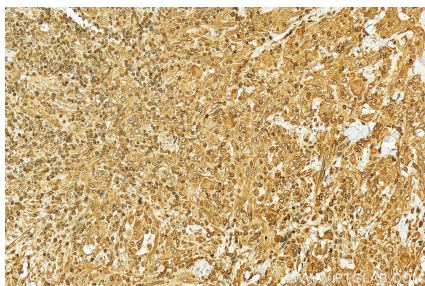
Various lysates were subjected to SDS PAGE followed by western blot with 12398-1-AP (LBR antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



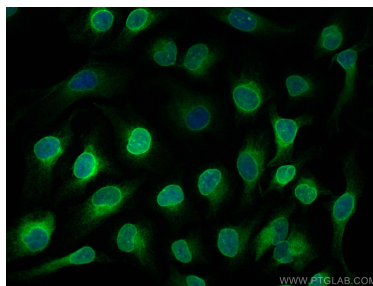
WB result of LBR antibody (12398-1-AP; 1:40000; room temperature for 1.5 hours) with wild-type and LBR knockout HAP1 cells.



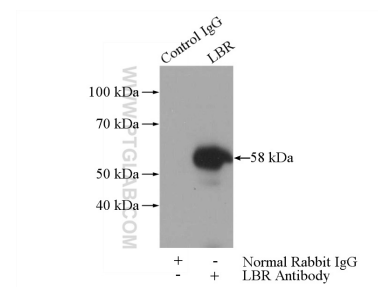
Immunohistochemical analysis of paraffin-embedded skin cancer slide using 12398-1-AP (LBR antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



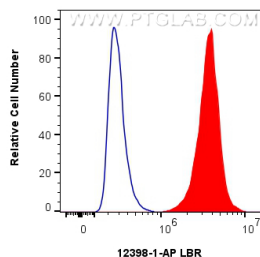
Immunohistochemical analysis of paraffin-embedded skin cancer slide using 12398-1-AP (LBR antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



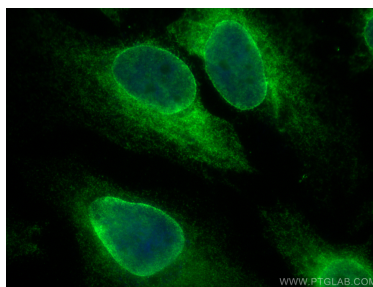
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using LBR antibody (12398-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



IP result of anti-LBR (IP:12398-1-AP, 3ug; Detection:12398-1-AP 1:500) with A375 cells lysate 3200ug.



1x10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human LBR (12398-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) at dilution 1:1000(red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using LBR antibody (12398-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).