

For Research Use Only

CoraLite® Plus 488-conjugated LBR Polyclonal antibody

Catalog Number: CL488-12398



Basic Information

Catalog Number:

CL488-12398

Size:

100ul , Concentration: 1000 ug/ml by
Nanodrop;

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:

IF/ICC 1:50-1:500

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : HeLa 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).

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

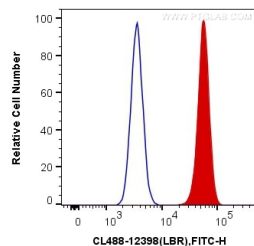
For technical support and original validation data for this product please contact:

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

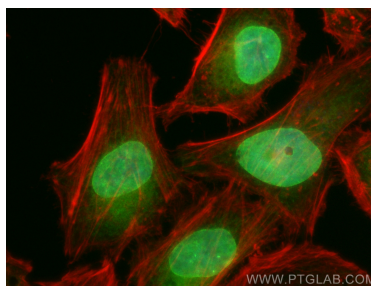
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human LBR (CL488-12398) (red), or 0.4 ug Control Antibody (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 LBR antibody (CL488-12398) at dilution of 1:200, CL594-phalloidin (red).