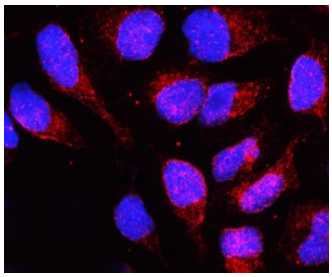
LBR Antibody / Lamin B Receptor (RQ5307)

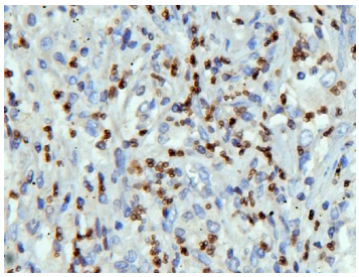
Catalog No.	Formulation	Size
RQ5307	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

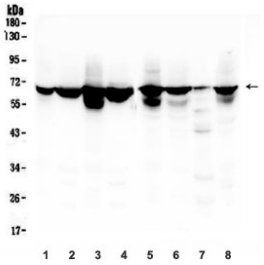
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q14739
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This LBR antibody is available for research use only.



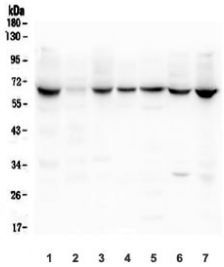
Immunofluorescent staining of human U-2 OS cells with LBR antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



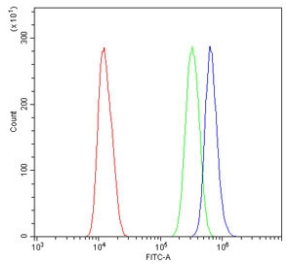
IHC staining of FFPE human lung cancer with LBR antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Western blot testing of human 1) placenta, 2) HL-60, 3) K562, 4) ThP-1, 5) HEK293, 6) U-2 OS, 7) U937 and 8) Caco-2 lysate with LBR antibody. Predicted molecular weight ~71 kDa.



Western blot testing of rat 1) thymus, 2) spleen, 3) testis and mouse 4) thymus, 5) stomach, 6) testis and 7) SP2/0 lysate with LBR antibody. Predicted molecular weight ~71 kDa.



Flow cytometry testing of human U937 cells with LBR antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= LBR antibody.

Description

Lamin-B receptor is a protein, and in humans, it is encoded by the LBR gene. It is mapped to 1q42.12. The protein encoded by this gene belongs to the ERG4/ERG24 family. It localized in the nuclear envelope inner membrane and anchors the lamina and the heterochromatin to the membrane. It may mediate interaction between chromatin and lamin B. Mutations of this gene has been associated with autosomal recessive HEM/Greenberg skeletal dysplasia. Alternative splicing occurs at this locus and two transcript variants encoding the same protein have been identified.

Application Notes

Optimal dilution of the LBR antibody should be determined by the researcher.

Immunogen

Amino acids H102-F209 from the human protein were used as the immunogen for the LBR antibody.

Storage

Store the LBR antibody at -20oC.