

**Lamin B Receptor Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog #1398-1

Clone ID: E398L **Lot #:** C021112
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: Human Mouse Rat
Applications: WB IHC ICC Flow Cytometry IP
Molecular Wt.: 71 kDa
UniProt ID: Q14739

Background: Lamins are nuclear membrane proteins that serve to maintain specific cellular functions, such as DNA replication and chromatin organization (1). Lamin B receptor (LBR) is an integral protein of the nuclear envelope inner membrane. It is phosphorylated by CDC2 protein kinase in mitosis when the inner nuclear membrane breaks down into vesicles that dissociate from the lamina and the chromatin. It is phosphorylated by different protein kinases in interphase when the membrane is associated with these structures (2). The cleavage of lamins results in nuclear disregulation and cell death (3,4).

Specificity: A synthetic peptide corresponding to residues of human Lamin B Receptor was used as immunogen.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:500
ICC: 1:500
IP: 1:50

Background References:

1. Gruenbaum, Y., et al. Review: nuclear lamins—structural proteins with fundamental functions. *J. Struct. Biol.* 129: 313–323 (2000).
2. Ye, Q. and H.J. Worman. Primary structure analysis and lamin B and DNA binding of human LBR, an integral protein of the nuclear envelope inner membrane. *J. Biol. Chem.* 269: 11306–11311 (1994).
3. Oberhammer, F.A., et al. Chromatin condensation during apoptosis is accompanied by degradation of lamin A+B, without enhanced activation of cdc2 kinase. *J. Cell Biol.* 126: 827–837 (1994).
4. Rao, L., et al. Lamin proteolysis facilitates nuclear events during apoptosis. *J. Cell Biol.* 135: 1441–1455 (1996).

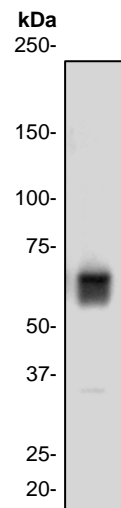


Fig 1. Western blot analysis on Jurkat cell lysate using anti-LBR RabMAb (cat. #1398-1), dilution 1:500.

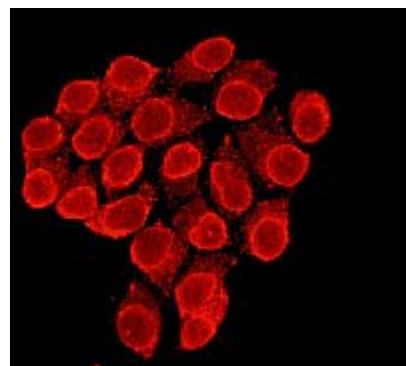


Fig 2. Immunofluorescent staining of HeLa cells using anti-LBR RabMAb (cat. #1398-1).

Product QC'd by: _____

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.

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