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Anti-Lamin B Receptor LBR Rabbit Monoclonal Antibody

Catalog # ABO14225

Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	Q14739
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-Lamin B Receptor LBR Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Rat.

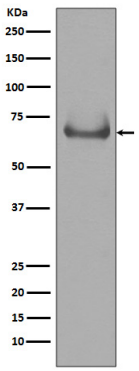
Additional Information

Gene ID	3930
Other Names	Delta(14)-sterol reductase LBR, Delta-14-SR, 1.3.1.70, 3-beta-hydroxysterol Delta (14)-reductase, C-14 sterol reductase, C14SR, Integral nuclear envelope inner membrane protein, LMN2R, Lamin-B receptor, Sterol C14-reductase, LBR
Calculated MW	70703
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:100-1:500 IP 1:30
Subcellular Localization	Nucleus inner membrane; Multi-pass membrane protein.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: EDO-12
Immunogen	A synthesized peptide derived from human Lamin B Receptor
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	LBR
Function	Catalyzes the reduction of the C14-unsaturated bond of lanosterol, as part of the metabolic pathway leading to cholesterol biosynthesis (PubMed:12618959, PubMed:16784888, PubMed:21327084, PubMed:27336722, PubMed:9630650). Plays a critical role in myeloid cell cholesterol biosynthesis which is essential to both myeloid cell growth and functional maturation (By similarity). Mediates the activation of NADPH oxidases, perhaps by maintaining critical levels of cholesterol required for membrane lipid raft formation during neutrophil differentiation (By similarity). Anchors the lamina and the heterochromatin to the inner nuclear membrane (PubMed:10828963).
Cellular Location	Nucleus inner membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane. Cytoplasm Nucleus. Note=Nucleus; nuclear rim
Tissue Location	Expressed in the bone marrow, liver, heart, adrenal gland, lung, placenta and uterus (PubMed:16784888). Expressed in osteoclasts and osteoblast-like cells (PubMed:21327084)

Images



Western blot analysis of Lamin B Receptor expression in Jurkat cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.