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Lamin B Receptor Antibody

Rabbit mAb
Catalog # AP90568

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	Q14739
Reactivity	Rat, Human
Clonality	Monoclonal
Other Names	PHA; LMN2R; TDRD18; DHCR14B; LBR;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	70703

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:100~1:500 IP 1:30
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Lamin B Receptor
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

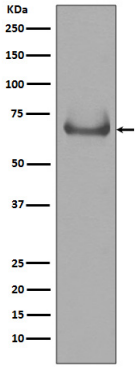
Name	LBR
Function	Catalyzes the reduction of the C14-unsaturated bond of lanosterol, as part of the metabolic pathway leading to cholesterol biosynthesis (PubMed:12618959, PubMed:16784888, PubMed:21327084, PubMed:27336722, PubMed:9630650). Plays a critical role in myeloid cell cholesterol biosynthesis 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'.