

Datasheet for ABIN7548886

Lamin B Receptor Protein (LBR) (AA 1-615) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Lamin B Receptor (LBR)
Protein Characteristics:	AA 1-615
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lamin B Receptor protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat LBR Protein expressed in mammalian cells.
Sequence:	MPSRKFADGE VVRGRWPGSS LYYEVEILSH DSTSQLYTVK YKDGTELELK ENDIKPLTSF RQRKGGSTSS SPSRRRGRSRS RSRSRSPGRP PKSARRSASA SHQADIKEAR REVEVKLTPL ILKPFNGNSIS RYNGEPEHIE RNDAPHKNTQ EKFSLSQESS YIATQYSLRP RREEVKLKEI DSKEEKYVAK ELAVRTFEVT PIRAKDLEFG GVPGVFLIMF GLPVFLFLLL LMCKQKDP SL LNFPPPLPAL YELWETRVFG VYLLWFLIQV LFYLLPIGKV VEGTPLIDGR RLKYRLNGFY AFILTSAVIG TSLFQGVEFH YVYSHFLQFA LAATVFCVVL SVYLYMRSLK APRNDLSPAS SGNAVYDFFI GRELNPRIGT FDLKYFCELR PGLIGWVWIN LVMLLAEMKI QDRAVPSLAM ILVNSFQLLY VVDALWNEEA LLTTMDIIHD GFGFMLAFGD LVWVPIYSF QAFYLVSHPN EVSWPMASLI IVLKLGGYVI FRGANSQKNA FRKNPSDPKL AHLKTIHTST GKNLLVSGWW GFVRHPNYLG DLIMALAWSL PCGFNHILPY FYIIFTMLL VHREARDEYH CKKKYGVAVE KYCQRVPYRI FPYIY Sequence without tag. The proposed Purification-Tag is based on

Product Details

experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

Lamin B Receptor (LBR)

Alternative Name:

LBR ([LBR Products](#))

Background:

Delta(14)-sterol reductase LBR (Delta-14-SR) (EC 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),FUNCTION: Catalyzes the reduction of the C14-unsaturated bond of lanosterol, as part of the metabolic pathway leading to cholesterol biosynthesis (PubMed:9630650, PubMed:12618959, PubMed:16784888, PubMed:21327084, PubMed:27336722). 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). {ECO:0000250|UniProtKB:Q3U9G9, ECO:0000269|PubMed:10828963,

Target Details

ECO:0000269|PubMed:12618959, ECO:0000269|PubMed:16784888,
ECO:0000269|PubMed:21327084, ECO:0000269|PubMed:27336722,
ECO:0000269|PubMed:9630650}.

Molecular Weight: 70.7 kDa

UniProt: [Q14739](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months