abcam

Product datasheet

Anti-LDL Receptor antibody [EP1553Y] - Low endotoxin, Azide free ab215980

敲除验证 重组 RabMAb

4 图像

概述

产品名称	Anti-LDL Receptor抗体[EP1553Y] - Low endotoxin, Azide free
描述	兔单克隆抗体[EP1553Y] to LDL Receptor - Low endotoxin, Azide free
宿主	Rabbit
特异性	Some optimisation may be required for detection of the target protein due to low levels of endogenous expression in some samples. Please see images below for suitable positive controls.
经测试应用	**适用于:** WB, IHC-P **不适用于:** Flow Cyt or ICC/IF
种属反应性	**与反应:** Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HepG2 cell lysate
常规说明	ab215980 is the carrier-free version of **ab52818**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: 59% PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1553Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab215980于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

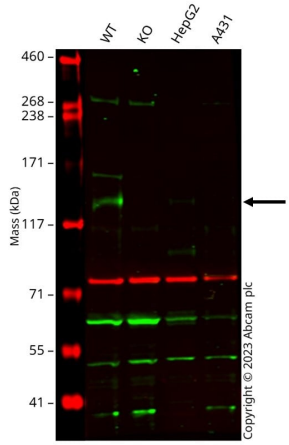
靶标

功能 Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. In case of HIV-1 infection, functions as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.

疾病相关 Defects in LDLR are the cause of familial hypercholesterolemia (FH) [MIM:143890]; a common autosomal semi-dominant disease that affects about 1 in 500 individuals. The receptor defect impairs the catabolism of LDL, and the resultant elevation in plasma LDL-cholesterol promotes deposition of cholesterol in the skin (xanthelasma), tendons (xanthomas), and coronary arteries

	(atherosclerosis).
序列相似性	Belongs to the LDLR family. Contains 3 EGF-like domains. Contains 7 LDL-receptor class A domains. Contains 6 LDL-receptor class B repeats.
翻译后修饰	N- and O-glycosylated. Ubiquitinated by MYLIP leading to degradation.
细胞定位	Cell membrane. Endomembrane system. Membrane > clathrin-coated pit. Found distributed from the plasma membrane to intracellular compartments.

图片



Western blot - Anti-LDL Receptor antibody [EP1553Y] - Low endotoxin, Azide free (ab215980)

All lanes : Anti-LDL Receptor antibody [EP1553Y] (**ab52818**) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : LDLR knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : A431 cell lysate

Lysates/proteins at 20 µg per lane.

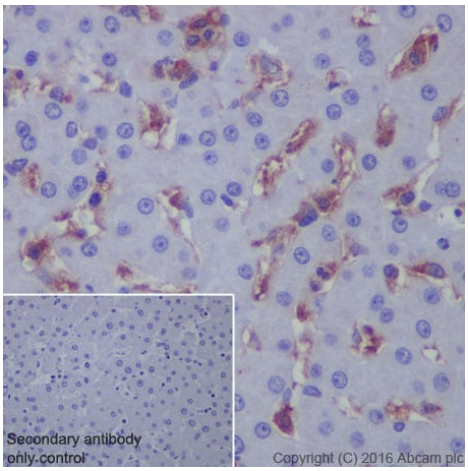
Performed under reducing conditions.

Observed band size: 130,160 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52818**).

Anti-LDLR antibody [EP1553Y] (**ab52818**) staining at 1/1000 dilution, shown in green; Mouse anti-CANX [CANX/1543] (**ab238078**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab52818** was shown to bind specifically to LDLR. A band was observed at 130/160 kDa in wild-type HeLa cell lysates with no signal observed at this size in LDLR knockout cell line **ab273838** (knockout cell lysate **ab273792**). To generate this image, wild-type and LDLR knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies

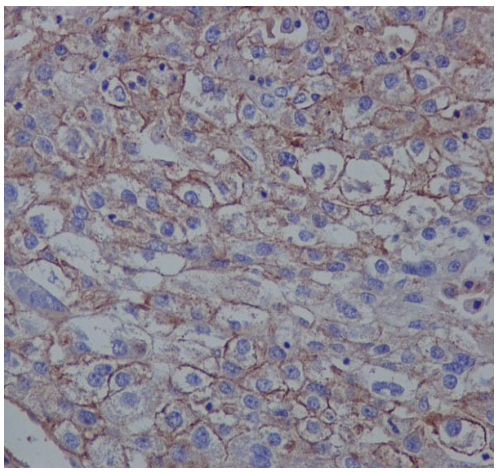
for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LDL Receptor antibody [EP1553Y] - Low endotoxin, Azide free (ab215980)

Immunohistochemical analysis of paraffin-embedded human liver sections labeling LDL Receptor with purified **ab52818** at dilution of 1:500. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52818**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LDL Receptor antibody [EP1553Y] - Low endotoxin, Azide free (ab215980)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma tissue labeling LDL Receptor with **ab52818** at 1/100 dilution followed by goat anti-rabbit IgG H&L (HRP) (**ab97051**, 1/500). The sample was counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52818**).

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