

Anti-LDL Receptor antibody [EP1553Y] ab52818






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概述

产品名称	Anti-LDL Receptor抗体[EP1553Y]
描述	兔单克隆抗体[EP1553Y] to LDL Receptor
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: IHC-P, WB 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Mouse, Human
免疫原	Synthetic peptide within Human LDL Receptor aa 800 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P01130
阳性对照	WB: HeLa and RAW264.7 cell lysate. HepG2 whole cell lysate. Mouse liver, lung and colon lysate. Human liver and plasma lysate. IHC-P: Human hepatocellular carcinoma and liver tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide

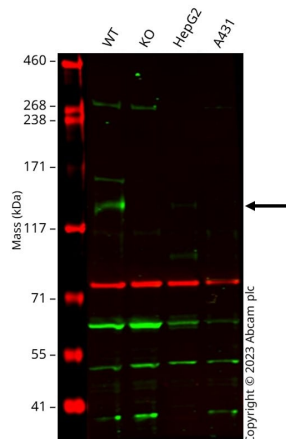
应用

“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。

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

靶标

图片



Western blot - Anti-LDL Receptor antibody
[EP1553Y] (ab52818)

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

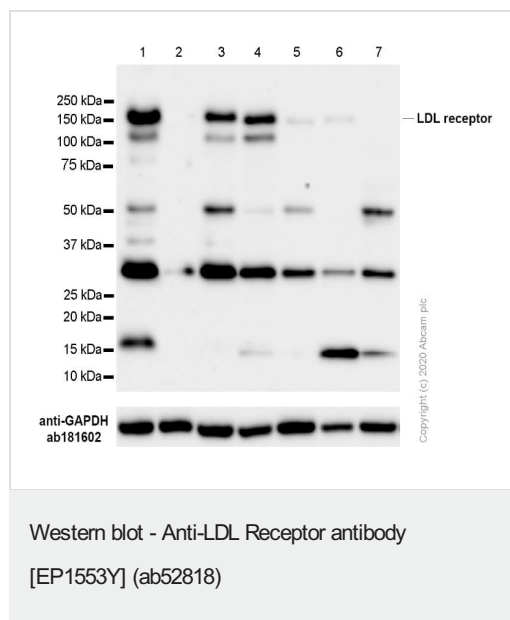
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 95 kDa

Observed band size: 130,160 kDa

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.



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

Lane 1 : PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate

Lane 3 : Huh7 (Human hepatocellular carcinoma epithelial cell) whole cell lysate

Lane 4 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate

Lane 5 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 6 : A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate

Lane 7 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

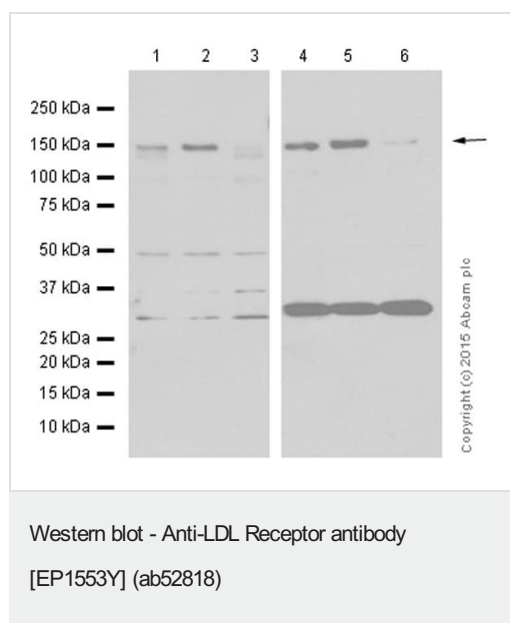
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/20000 dilution

Predicted band size: 95 kDa

Observed band size: 150 kDa

Blocking buffer: 5% NFDM/TBST

Diluting buffer: 5% NFDM/TBST



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

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 2 : HeLa treated with GW3965 for 8 hours at the final concentration of 5uM whole cell lysates

Lane 3 : HeLa treated with GW3965 for 24 hours at the final concentration of 5uM whole cell lysates

Lane 4 : Raw264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysates

Lane 5 : Raw264.7 treated with GW3965 for 8 hours at the final concentration of 5uM whole cell lysates

Lane 6 : Raw264.7 treated with GW3965 for 24 hours at the final concentration of 5uM whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (HRP goat anti-rabbit IgG (H+L))

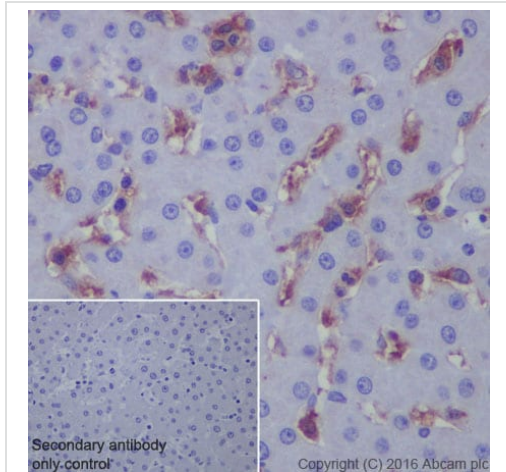
Predicted band size: 95 kDa

Observed band size: 140 kDa

Exposure time: 1 minute

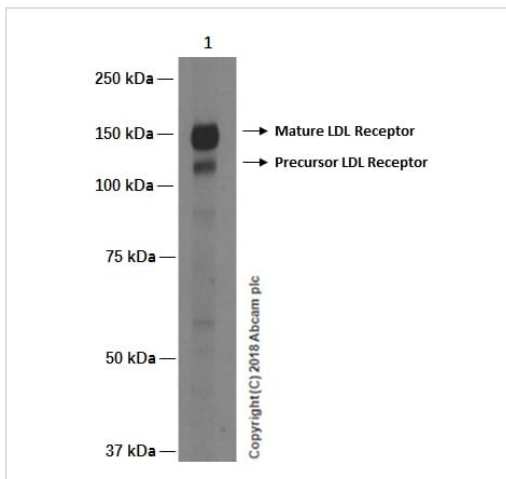
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LDL Receptor antibody [EP1553Y] (ab52818)



Western blot - Anti-LDL Receptor antibody [EP1553Y] (ab52818)

Anti-LDL Receptor antibody [EP1553Y] (ab52818) at 0.4 µg/ml + HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

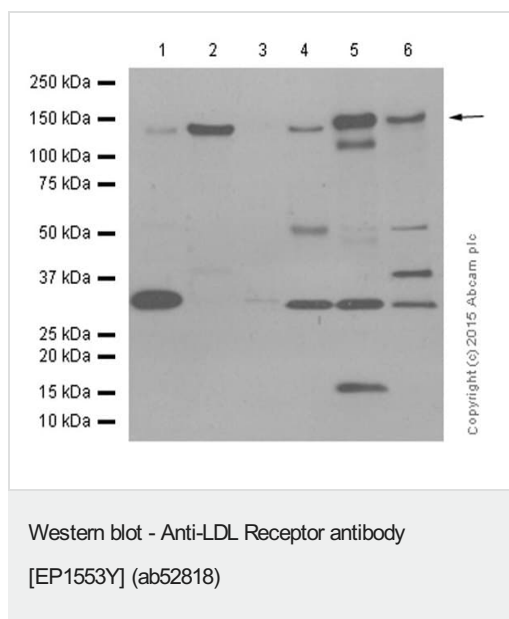
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 95 kDa

Exposure time: 3 minutes

Blocking and diluting buffer: 5% NFDM/TBST.

The molecular weight observed is consistent with the literature (PMID: 15199428, PMID: 8349823, PMID: 10906332, PMID: 24918045).



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

Lane 1 : Mouse liver lysate

Lane 2 : Mouse lung lysate

Lane 3 : Mouse colon lysate

Lane 4 : Human liver lysate

Lane 5 : HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate

Lane 6 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/1000 dilution (HRP goat anti-rabbit IgG (H+L))

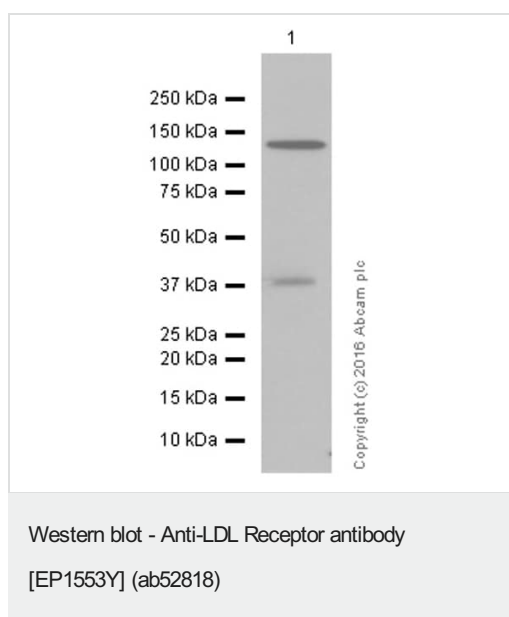
Predicted band size: 95 kDa

Observed band size: 140 kDa

Exposure time: 3 minutes

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Anti-LDL Receptor antibody [EP1553Y] (ab52818) at 1/5000 dilution + Mouse liver at 15 µg

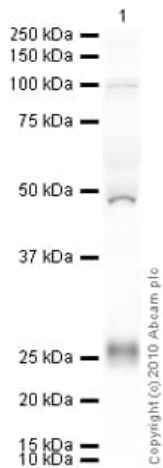
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#))

Predicted band size: 95 kDa

Observed band size: 140 kDa

Blocking/Diluting buffer 5% NFDM/TBST



Western blot - Anti-LDL Receptor antibody
[EP1553Y] (ab52818)

Anti-LDL Receptor antibody [EP1553Y] (ab52818) at 1/500 dilution
+ Human plasma total protein lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at
1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

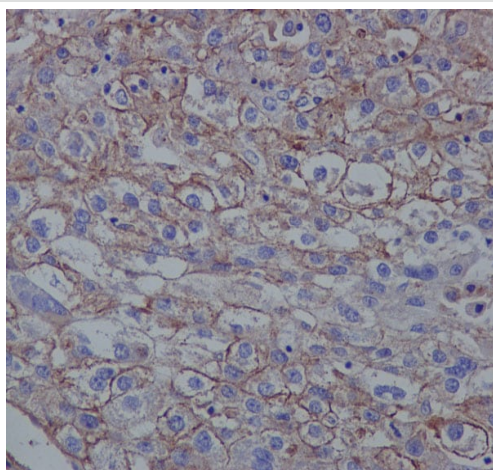
Predicted band size: 95 kDa

Observed band size: 100 kDa

Additional bands at: 27 kDa, 48 kDa. We are unsure as to the
identity of these extra bands.

Exposure time: 4 minutes

LDL Receptor contains a number of potential glycosylation sites
(SwissProt) which may explain its migration at a higher molecular
weight than predicted.



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-LDL Receptor antibody
[EP1553Y] (ab52818)

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.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-LDL Receptor antibody [EP1553Y] (ab52818)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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