Product Datasheet

LDLR Antibody (EP1553Y)
NB110-57162

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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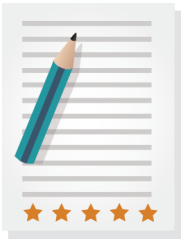

NB110-57162

LDLR Antibody (EP1553Y)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	EP1553Y
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Tissue culture supernatant
Buffer	49% PBS, 0.05% BSA and 50% Glycerol

Product Description	
Host	Rabbit
Gene ID	3949
Gene Symbol	LDLR
Species	Human, Mouse, Rat
Reactivity Notes	Rat and Mouse cross-reactivity tested by western blot only. Rat reactivity reported in scientific literature (PMID: 25664679)
Specificity/Sensitivity	This antibody detects both isoforms of LDL receptor.
Immunogen	A synthetic peptide corresponding to residues on the C-terminus of human LDL receptor was used as an immunogen.
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-10000, Flow Cytometry 1:70, Immunohistochemistry 1:100 - 1:250, Immunocytochemistry/ Immunofluorescence 1:100-250, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:100 - 1:250
Application Notes	In Western blot this antibody detects a band at approximately 140 kDa. This antibody can also be used in Co-IP (PMID: 22128165).

Publications

Hu PA, Chen CH, Guo BC et al. Bromelain Confers Protection against the Non-Alcoholic Fatty Liver Disease in Male C57bl/6 Mice Nutrients 2020-05-18 [PMID: 32443556]

Picard C, Poirier A, Belanger S et al. Proprotein convertase subtilisin/kexin type 9 (PCSK9) in Alzheimer's disease: A genetic and proteomic multi-cohort study PLoS ONE 2019-08-22 [PMID: 31437157] (ELISA, Human)

Pennanen P, Syvala H, Blauer M et al. The effects of metformin and simvastatin on the growth of LNCaP and RWPE-1 prostate epithelial cell lines. Eur. J. Pharmacol. 2016-06-21 [PMID: 27341997]

Pincon A, Coulombe JD, Chouinard-Watkins R, Plourde M Human apolipoprotein E allele and docosahexaenoic acid intake modulate peripheral cholesterol homeostasis in mice. J Nutr Biochem. 2016-08-01 [PMID: 27239755] (WB, Mouse)

Wahrle SE, Jiang H, Parsadanian M et al. Overexpression of ABCA1 reduces amyloid deposition in the PDAPP mouse model of Alzheimer disease. J Clin Invest 2008-02-01 [PMID: 18202749] (Mouse)

Rideout TC, Carrier B, Wen S et al. Complementary Cholesterol-Lowering Response of a Phytosterol/alpha-Lipoic Acid Combination in Obese Zucker Rats J Diet Suppl. 2015-02-09 [PMID: 25664679] (WB, Rat)

Kim WS, Li H, Ruberu K et al. Deletion of Abca7 Increases Cerebral Amyloid-beta Accumulation in the J20 Mouse Model of Alzheimer's Disease. J Neurosci. 2013-03-06 [PMID: 23467355]

Krueger WH, Tanasijevic B, Barber V et al. Cholesterol-Secreting and Statin-Responsive Hepatocytes from Human ES and iPS Cells to Model Hepatic Involvement in Cardiovascular Health. PLoS One 2013-07-11 [PMID: 23874411] (ICC/IF, Human)

Wen S, Jadhav KS, Williamson DL, Rideout TC. Treadmill Exercise Training Modulates Hepatic Cholesterol Metabolism and Circulating PCSK9 Concentration in High-Fat-Fed Mice. J Lipids 2013-01-01 [PMID: 23862065] (WB, Mouse)

Wei J, Ching LC, Zhao JF et al. Essential role of transient receptor potential vanilloid type 1 in evodiamine-mediated protection against atherosclerosis. Acta Physiol (Oxf) 2013-02-01 [PMID: 23025809] (WB, Mouse)

Kolmakova A, Wang J, Brogan R et al. Deficiency of scavenger receptor class B type I negatively affects progesterone secretion in human granulosa cells. Endocrinology 2010-11-01 [PMID: 20844007] (WB, Human)

Bogan RL, Hennebold JD. The reverse cholesterol transport system as a potential mediator of luteolysis in the primate corpus luteum. Reproduction 2010-01-01 [PMID: 19776099]

More publications at http://www.novusbio.com/NB110-57162

Procedures

Immunohistochemistry Protocol for LDL Receptor Antibody (NB110-57162)
Immunohistochemistry Protocol for Paraffin-embedded Tissues

1. Solutions and reagents
1.1. Xylene
1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)
1.3. Washing buffer:
TBST washing buffer: 1XTBS/0.1% Tween-20
To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH2O. Adjust pH to 7.6.
Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH2O. Add 1 ml Tween-20 and mix well.
1.4. Distilled water (dH2O)
1.5. Antigen Retrieval Solution:
0.01M Sodium Citrate Buffer, pH 6.0
To prepare stock solutions:
Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C6H8O7.H2O) in 1 liter of dH2O.
Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C6H5Na3O7.2H2O) in 1 liter of dH2O.
Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH2O. Adjust pH to 6.0.
1.6. 3% Hydrogene Peroxide
1.7. Blocking buffer:
PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)
1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)
1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)

2. Protocol

2.1. Deparaffinization/Rehydration
2.1.1. Heat slides in an oven at 65C for 1 hour.
2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H2O and a TBST wash for 5 min on a shaker.
2.2. Antigen Retrieval
2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.
2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH2O.
2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.
2.2.4. Allow to cool down, without cover, for 20 min.
2.3. Staining
2.3.1. Wash slides with TBST for 5 min on a shaker.
2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.
2.3.3. Wash slides three times with TBST (3 min each on a shaker).
2.3.4. Block slides with the blocking solution for 1 hour.
2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.
2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).
2.3.7. Wash slides three times with TBST (3 min each on a shaker).
2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.
2.3.9. Wash slides three times with TBST (3 min each on a shaker).
2.3.10. Add freshly prepared DAB substrate to the sections.
2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).
2.3.12. Rinse sections with water.
2.3.13. Counterstain with Hematoxylin.
2.3.14. Rinse sections with water.
2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).
2.3.16. Mount coverslips on slides using Permount medium.

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Limitations
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