Product Datasheet

LDLR Antibody (C7) - BSA Free
NBP1-78159

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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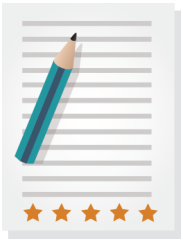


NBP1-78159

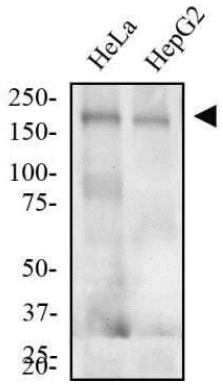
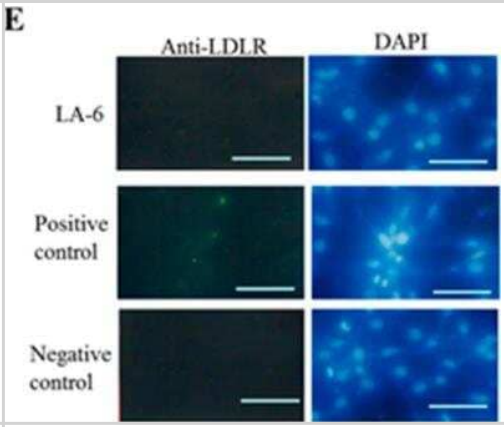
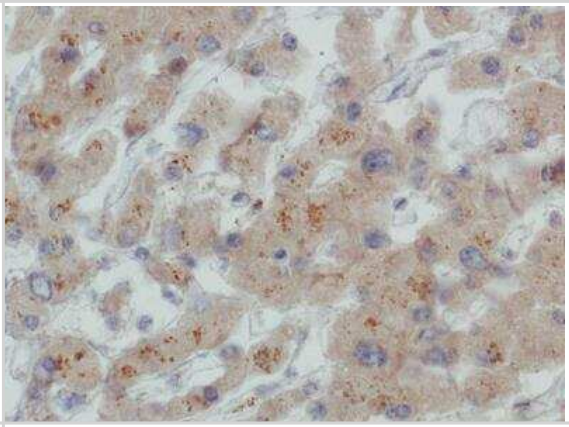
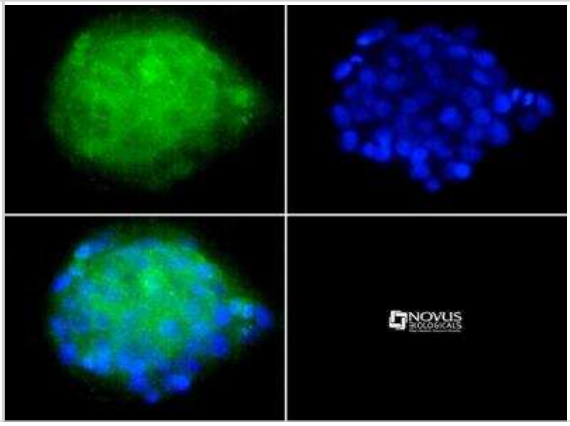
LDLR Antibody (C7) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	C7
Preservative	0.05% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	Tris-Glycine, 0.15M NaCl

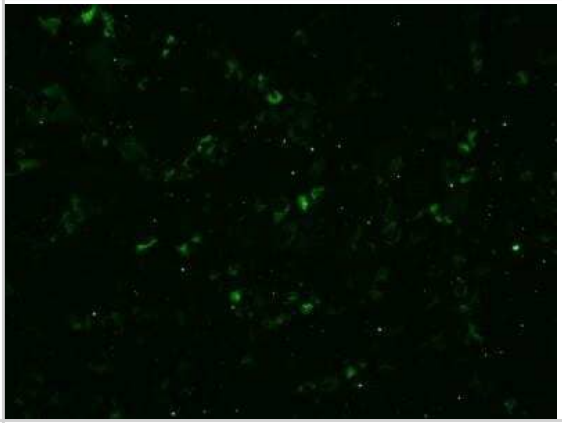
Product Description	
Description	Novus Biologicals Mouse LDLR Antibody (C7) - BSA Free (NBP1-78159) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-LDLR Antibody: Cited in 24 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3949
Gene Symbol	LDLR
Species	Human, Rat, Porcine, Bovine
Immunogen	Partially purified bovine LDL receptor [Swiss-Prot# P01131].

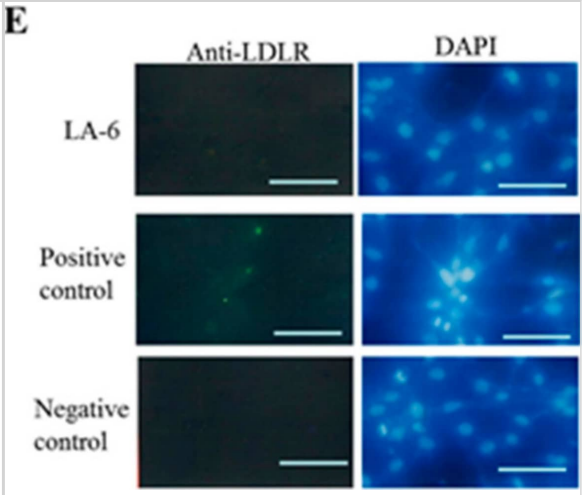
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vitro assay, Immunoprecipitation, Proximity Ligation Assay, Radioimmunoassay
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry reported in scientific literature (PMID 10906332), ELISA, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:200, Immunohistochemistry-Frozen reported in scientific literature (PMID 11839845), In vitro assay reported in scientific literature (PMID 9642270), Radioimmunoassay, Proximity Ligation Assay reported in scientific literature (PMID 3263645), Electron Microscopy reported in scientific literature (PMID 11839845)
Application Notes	In WB assay, specific bands can be seen around 160 kDa (mature form) and 120 kDa (precursor) molecular weight positions.

Images

Western Blot: LDL R Antibody (C7) [NBP1-78159] - Total protein from human HeLa and HepG2 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 0.5 ug/mL anti-LDL receptor in 1% non-fat milk in TBST and detected with an anti-mouse HRP secondary antibody using chemiluminescence.	
Immunocytochemistry/Immunofluorescence: LDLR Antibody (C7) [NBP1-78159] - Immunocytochemistry of LA-6 and intact MPEFs (used as positive control) using anti-LDLR antibody. The parental MPEFs reactive to the secondary antibody (fluorescein-labeled anti-mouse IgG) alone are designated as negative control. All cells were counterstained with DAPI upon reaction with the secondary antibody. Bar = 30 um. Image collected and cropped by CiteAb from the following publication (www.mdpi.com/1422-0067/18/12/2610) licensed under a CC-BY license.	
Immunohistochemistry: LDL R Antibody (C7) [NBP1-78159] - Analysis of an FFPE tissue section of human liver using LDL Receptor antibody (clone C7) with HRP-DAB based detection and hematoxylin counterstaining.	
Immunocytochemistry/Immunofluorescence: LDL R Antibody (C7) [NBP1-78159] - Antibody was tested in HepG2 cells with FITC (green). Nuclei were counterstained with DAPI (blue).	

Immunocytochemistry/Immunofluorescence: LDL R Antibody (C7) [NBP1-78159] - Image from a customer review on porcine intestinal epithelial cells IPEC-J2.





(A) Flowchart of the experiments used for testing the feasibility of the new system for enrichment of cells genome-edited at a single target locus. Four days after transfection with pCGsap1/LDLR, pgRNA#3, and pEGFP-N1, cells were treated with IB4SAP for a short period and cultured in normal medium for more than 10 days. The emerging colonies were propagated for molecular biological and cytochemical analyses; (B) cytochemical staining of clones LA-2 and -6 with AF594-IB4. Untransfected MPEFs were stained as positive control. Phase, photographs taken under light microscopy; AF594-IB4, photographs taken under UV illumination to detect AF594-IB4–derived red fluorescence. Bar = 30 μm; (C) electrophoretic pattern of polymerase chain reaction (PCR) products derived from the amplification of LA-1 to -7. Arrows indicate the size of PCR products for each gene (LDLR and GGTA1). M, 100 bp-ladder markers; (D) direct sequencing of PCR products from LA-2 (left panel) and LA-6 (right panel) using primers specific to LDLR or GGTA1 gene. Arrows above ideograms indicate the sites showing indels. In the bottom of each panel, sequencing results of inserts sub-cloned into TA cloning vector are shown. The numbers of clones examined are shown in parentheses. The translation initiation codon ATG is shown by boxes or in red. PAM is indicated by underlines. The deleted portion in the clones is shown by dotted lines; (E) immunocytochemistry of LA-6 and intact MPEFs (used as positive control) using anti-LDLR antibody. The parental MPEFs reactive to the second antibody (fluorescein-labeled anti-mouse IgG) alone are designated as negative control. All cells were counterstained with DAPI upon reaction with the second antibody. Bar = 30 μm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29207527), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Publications

Knettel BA, Rugira J, Cornett JA. Mental Health Diagnostic Frameworks, Imputed Causes of Mental Illness, and Alternative Treatments in Northern Tanzania: Exploring Mental Health Providers' Perspectives. Culture, medicine and psychiatry 2018-11-26 [PMID: 29392517]

Langhaug L, Finnegan A, Schenk K et al. Caregiver self-efficacy to talk about sex predicts conversations about HIV transmission risk with perinatally infected young people in Zimbabwe AIDS care 2023-02-06 [PMID: 32093483]

Lee E, Jung Y, Park Y et al. A distinct astrocyte subtype in the aging mouse brain characterized by impaired protein homeostasis Nature Aging 2022-08-01 [PMID: 37118130] (IHC-Fr, Mouse)

Anthony H, Thomas O, Martin C et al. Cholesterol supports bovine granulosa cell inflammatory responses to lipopolysaccharide Society for Reproduction and Fertility 2022-08-05 [PMID: 35900358] (WB, Bovine)

Riad A, Lengyel-Zhand Z, Zeng C et Al. The Sigma-2 Receptor/TMEM97, PGRMC1, and LDL Receptor complex are responsible for the cellular uptake of A beta 42 and its protein aggregates Mol Neurobiol 2020-06-24 [PMID: 32572762]

Omer L, Hindi L, Militello G et al. Familial hypercholesterolemia class II low density lipoprotein-receptor response to statin treatment Dis Model Mech 2020-01-31 [PMID: 32005714] (FLOW, Human)

Riad A, Zeng C, Weng CC et al. Sigma-2 Receptor/TMEM97 and PGRMC-1 Increase the Rate of Internalization of LDL by LDL Receptor through the Formation of a Ternary Complex. Sci Rep. 2018-11-15 [PMID: 30443021] (ICC/IF, Human)

Sato M, Miyoshi K, Nakamura S et al. Efficient Generation of Somatic Cell Nuclear Transfer-Competent Porcine Cells with Mutated Alleles at Multiple Target Loci by Using CRISPR/Cas9 Combined with Targeted Toxin-Based Selection System. Int J Mol Sci 2017-12-04 [PMID: 29207527] (Porcine)

Chen Hc, Chen Py, Wu Mj et al. Tanshinone IIA Modulates Low Density Lipoprotein Uptake via Down-Regulation of PCSK9 Gene Expression in HepG2 Cells. PLoS ONE 2016-09-13 [PMID: 27617748] (WB)

Granato M, Zompetta C, Vescarelli E et al. HCV derived from sera of HCV-infected patients induces pro-fibrotic effects in human primary fibroblasts by activating GLI2. Sci Rep. 2016-08-01 [PMID: 27476557] (WB, Human)

Pena F, Jansens A, van Zadelhoff G, Braakman I. Calcium as a crucial cofactor for low density lipoprotein receptor folding in the endoplasmic reticulum. J Biol Chem. 2010-03-19 [PMID: 20089850]

Warren RA, Green FA, Stenberg PE, Enns CA. Distinct saturable pathways for the endocytosis of different tyrosine motifs. J Biol Chem. 1998-07-03 [PMID: 9642270] (In vitro)

More publications at http://www.novusbio.com/NBP1-78159

Procedures

Immunohistochemistry-Paraffin Embedded Sections protocol Specific for LDL Receptor Antibody (C7) [cat# NBP1-78159]

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

Immunocytochemistry/Immunofluorescence Protocol for LDL Receptor Antibody (NBP1-78159)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.
1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

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