

# 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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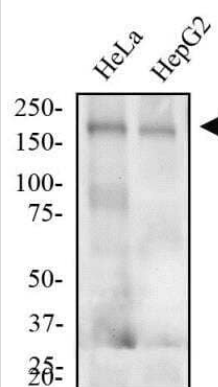
**NBP1-78159**

LDLR Antibody (C7) - BSA Free

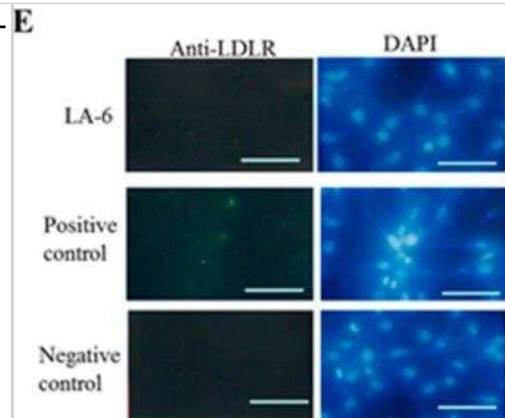
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	C7
Preservative	0.05% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	Tris-Glycine, 0.15M NaCl
Product Description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

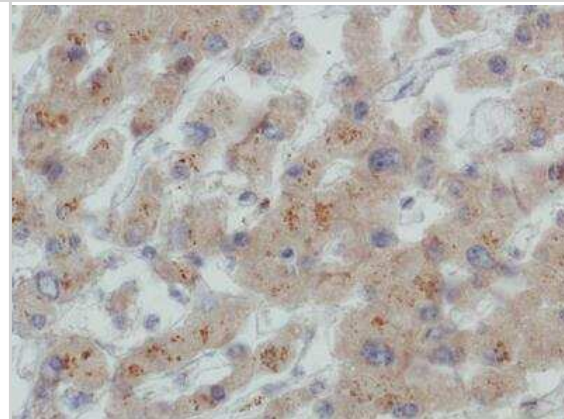
Western Blot: LDL R Antibody (C7) [NBP1-78159] - Total protein from human HeLa and HepG2 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 0.5 ug/mL anti-LDL receptor in 1% non-fat milk in TBST and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



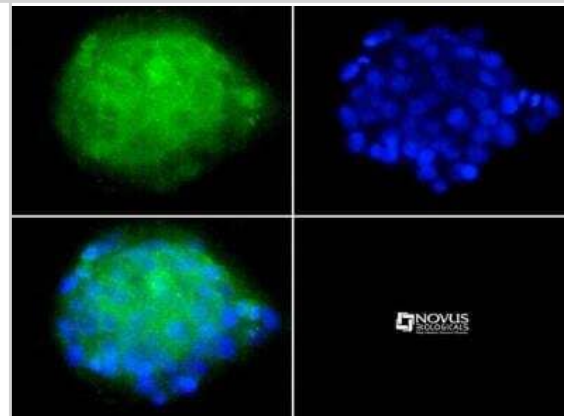
Immunocytochemistry/Immunofluorescence: LDLR Antibody (C7) [NBP1-78159] - Immunocytochemistry of LA-6 and intact MPEFs (used as positive control) using anti-LDLR antibody. The parental MPEFs reactive to the secondary antibody (fluorescein-labeled anti-mouse IgG) alone are designated as negative control. 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](http://www.mdpi.com/1422-0067/18/12/2610)) licensed under a CC-BY license.



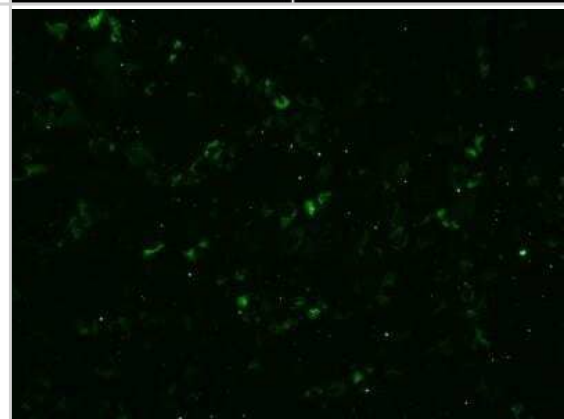
Immunohistochemistry: LDL R Antibody (C7) [NBP1-78159] - Analysis of an FFPE tissue section of human liver using LDL Receptor antibody (clone C7) with HRP-DAB based detection and hematoxylin counterstaining.



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.



## 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 1:25,000 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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General: novus@novusbio.com

### **Products Related to NBP1-78159**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP1-78159B	LDLR Antibody (C7) [Biotin]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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