

Product Datasheet

VLDLR Antibody (6A6) - BSA Free NBP1-78162

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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NBP1-78162

VLDLR Antibody (6A6) - 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	6A6
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	7436
Gene Symbol	VLDLR
Species	Human, Mouse, Rat, Bovine
Immunogen	Synthetic peptide corresponding to the C-terminus of human VLDL Receptor [Swiss-Prot# P98155]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:50, Immunohistochemistry-Paraffin 1:200
Application Notes	This VLDL Receptor (6A6) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and Western blot, where various isoforms can be detected between 120 and 168 kDa (see reference Jokinen et al, 1994).

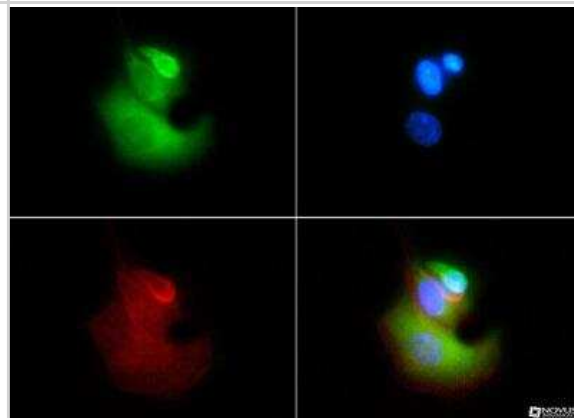


Images

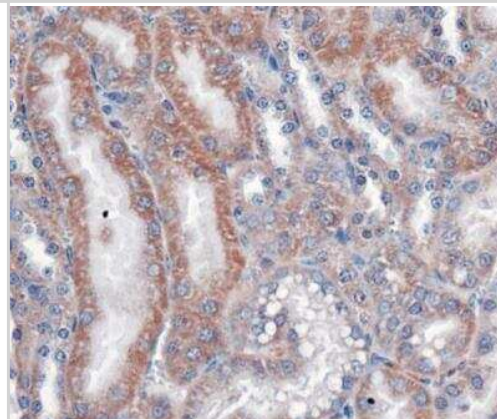
Western Blot: VLDLR Antibody (6A6) [NBP1-78162] - MCF-7 cells were exposed to 20% or 1% O₂ for 48 hours, whole cell lysates were loaded with 50 ug/lane. 10% SDS-PAGE. VLDLR Antibody (NBP1-78162) antibody at 1:1000, 4C, overnight. WB image submitted by a verified customer review.



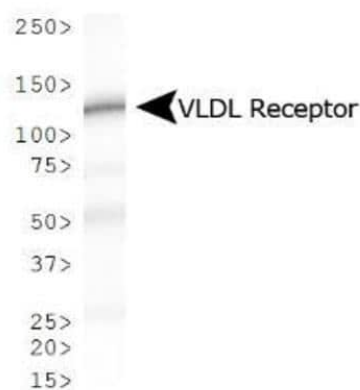
Immunocytochemistry/Immunofluorescence: VLDLR Antibody (6A6) [NBP1-78162] - VLDL R Antibody (6A6) [NBP1-78162] - VLDL Receptor antibody was tested in HeLa cells with FITC (green). Nuclei and actin were counterstained with DAPI (blue) and Phalloidin (red).



Immunohistochemistry: VLDL R Antibody (6A6) [NBP1-78162] - Analysis of VLDL Receptor in mouse kidney.



Western Blot: VLDL R Antibody (6A6) [NBP1-78162] - Analysis of VLDL Receptor expression in mouse kidney.



Publications

Qu F, Brough SC, Michno W et al. Crosstalk between small-cell lung cancer cells and astrocytes mimics brain development to promote brain metastasis *Nature cell biology* 2023-10-01 [PMID: 37783795]

Oshio Y, Hattori Y, Kamata H et al. Very low-density lipoprotein receptor increases in a liver-specific manner due to protein deficiency but does not affect fatty liver in mice *Scientific reports* 2021-04-13 [PMID: 33850206] (WB, Mouse)

Velagapudi S, Schraml P et al. Scavenger receptor BI promotes cytoplasmic accumulation of lipoproteins in clear-cell renal cell carcinoma. *J Lipid Res* 2018-01-11 [PMID: 30173145] (WB, Human)

Lee HC, Lin HT, Ke LY et al. VLDL from Metabolic Syndrome Individuals Enhanced Lipid Accumulation in Atria with Association of Susceptibility to Atrial Fibrillation. *Int J Mol Sci.* 2016-01-25 [PMID: 26805814] (ICC/IF, Mouse)

Niemeier A, Kassem M, Toedter K, Wendt D, Ruether W, Beisiegel U, Heeren J. Expression of LRP1 by human osteoblasts: a mechanism for the delivery of lipoproteins and vitamin K1 to bone. *J Bone Miner Res.* 20(2):283-93. 2005-02-01 [PMID: 15647823] (WB, Human)

Roberts CK, Barnard RJ, Liang KH, Vaziri ND. Effect of diet on adipose tissue and skeletal muscle VLDL receptor and LPL: implications for obesity and hyperlipidemia. *Atherosclerosis.* 161(1):133-41. 2002-03-01 [PMID: 11882325]

Wyne KL, Pathak K, Seabra MC, Hobbs HH. Expression of the VLDL receptor in endothelial cells. *Arterioscler Thromb Vasc Biol.* 16(3):407-15. 1996-03-01 [PMID: 8630667] (WB, Bovine)

Jokinen EV, Landschulz KT, Wyne KL, Ho YK, Frykman PK, Hobbs HH. Regulation of the very low density lipoprotein receptor by thyroid hormone in rat skeletal muscle. *J Biol Chem.* 269(42):26411-8. 1994-10-21 [PMID: 7929362] (WB, Rat)



Procedures

Western Blot Protocol Specific for NBP1-78162 [VLDL Receptor Antibody (6A6)]

VLDLR Antibody (6A6):

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

*Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

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

Immunohistochemistry-Paraffin Embedded Sections Protocol Specific for NBP1-78162 [VLDL Receptor Antibody (6A6)]

VLDLR Antibody (6A6):

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.

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Immunocytochemistry/Immunofluorescence Protocol for VLDL Receptor Antibody (NBP1-78162)

VLDLR Antibody (6A6):

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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Products Related to NBP1-78162

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-78162B	VLDLR Antibody (6A6) [Biotin]

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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