

VLDLR Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5754c

Specification

VLDLR Antibody (Center) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P98155
Other Accession	P35953 , NP_003374.3
Reactivity	Human
Predicted	Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	484-510

VLDLR Antibody (Center) - Additional Information

Gene ID 7436

Other Names

Very low-density lipoprotein receptor, VLDL receptor, VLDL-R, VLDLR

Target/Specificity

This VLDLR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 484-510 amino acids from the Central region of human VLDLR.

Dilution

WB~~1:2000
IHC-P~~1:25
FC~~1:25

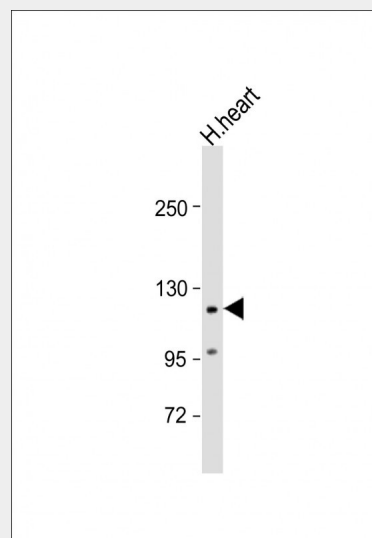
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

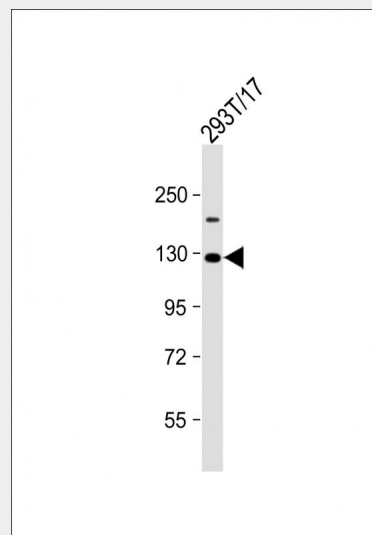
Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



Anti-VLDLR Antibody (Center) at 1:2000 dilution + human heart lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 96 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-VLDLR Antibody (Center) at 1:2000 dilution + 293T/17 whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L),

VLDLR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

VLDLR Antibody (Center) - Protein Information

Name VLDLR

Function

Binds VLDL and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. Binding to Reelin induces tyrosine phosphorylation of Dab1 and modulation of Tau phosphorylation (By similarity).

Cellular Location

Membrane; Single-pass type I membrane protein. Membrane, clathrin-coated pit; Single-pass type I membrane protein

Tissue Location

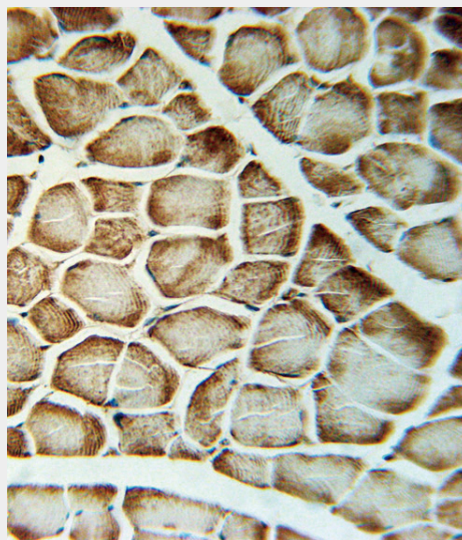
Abundant in heart and skeletal muscle; also ovary and kidney; not in liver

VLDLR Antibody (Center) - Protocols

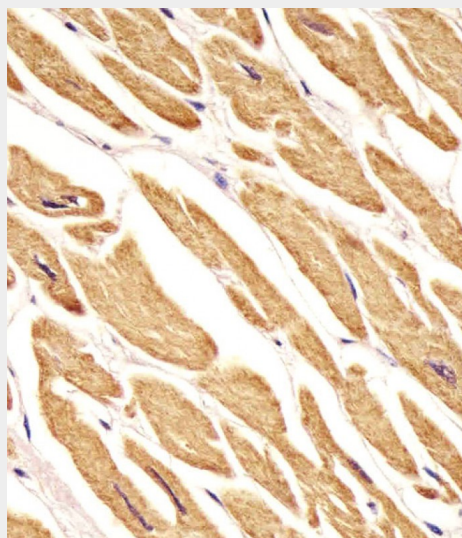
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 96 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

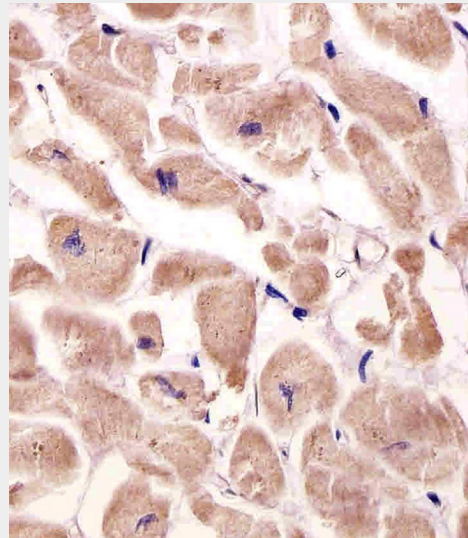


VLDLR Antibody (Center) (Cat. #AP5754c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the VLDLR Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

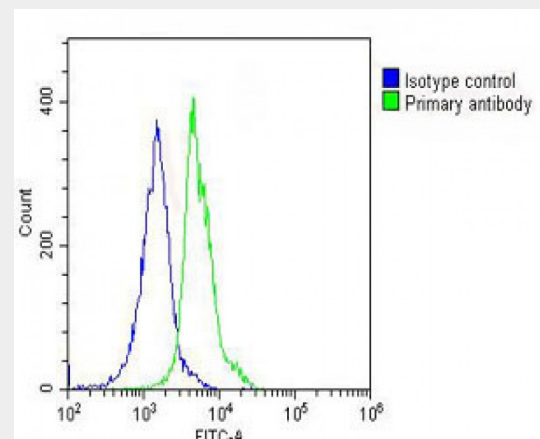


AP5754c staining VLDLR in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1

hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



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Overlay histogram showing THP-1 cells stained with AP5754c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP5754c, 1:25).

dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

VLDLR Antibody (Center) - Background

The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. This gene encodes a lipoprotein receptor that is a member of the LDLR family and plays important roles in VLDL-triglyceride metabolism and the reelin signaling pathway. Mutations in this gene cause VLDLR-associated cerebellar hypoplasia. Alternative splicing generates multiple transcript variants encoding distinct isoforms for this gene. [provided by RefSeq].

VLDLR Antibody (Center) - References

Sakai, K., et al. Brain Res. 1276, 11-21 (2009)
Francis, P.J., et al. J. Med. Genet. 46(5):300-307(2009)
Ananyeva, N.M., et al. Blood Coagul. Fibrinolysis 19(6):543-555(2008)
Turkmen, S., et al. Eur. J. Hum. Genet. 16(9):1070-1074(2008)

VLDLR Antibody (Center) - Citations

- [Human extravillous trophoblasts bind but do not internalize antiphospholipid antibodies.](#)