

**VLDLR Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5754c****Specification**

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**VLDLR Antibody (Center) Blocking peptide - Product Information**

Primary Accession [P98155](#)  
Other Accession [NP\\_003374.3](#)

**VLDLR Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 7436

**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**VLDLR Antibody (Center) Blocking peptide - Protein Information**

**Name** VLDLR

**Function**

Multifunctional cell surface receptor that binds VLDL and transports it into cells by endocytosis and therefore plays an important role in energy metabolism. Binds also to a wide range of other molecules including Reelin/RELN or apolipoprotein E/APOE- containing ligands as well as clusterin/CLU (PubMed:<[a href="http://www.uniprot.org/citations/24381170" target="\\_blank">24381170](http://www.uniprot.org/citations/24381170)</a>, PubMed:<[a href="http://www.uniprot.org/citations/30873003" target="\\_blank">30873003](http://www.uniprot.org/citations/30873003)</a>). In the off-state of the pathway, forms homooligomers or heterooligomers with LRP8 (PubMed:<[a href="http://www.uniprot.org/citations/30873003" target="\\_blank">30873003](http://www.uniprot.org/citations/30873003)</a>). Upon binding to ligands, homooligomers are rearranged to higher order receptor clusters that transmit the extracellular RELN signal to intracellular signaling processes by binding to DAB1 (PubMed:<[a href="http://www.uniprot.org/citations/30873003" target="\\_blank">30873003](http://www.uniprot.org/citations/30873003)</a>). This interaction results in phosphorylation of DAB1 leading to the ultimate cell responses required for the correct positioning of newly generated neurons. Later, mediates a stop signal for migrating neurons, preventing them from entering the marginal zone (By similarity).

**Cellular Location**

Cell 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**VLDLR Antibody (Center) Blocking peptide - Images****VLDLR Antibody (Center) Blocking peptide - 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) Blocking peptide - 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)