

VLDLR Antibody (clone 1H10)
Mouse Monoclonal Antibody
Catalog # ALS14939**Specification**

VLDLR Antibody (clone 1H10) - Product Information

Application	IHC
Primary Accession	P98155
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	96kDa KDa

VLDLR Antibody (clone 1H10) - Additional Information**Gene ID** 7436**Other Names**

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

Target/Specificity

Binds to an epitope on the C-terminus of the ligand binding domain (aa191-355) of VLDL receptor and blocks apoE4 binding.

Reconstitution & Storage

Long term: -70°C; Short term: -70°C

Precautions

VLDLR Antibody (clone 1H10) is for research use only and not for use in diagnostic or therapeutic procedures.

VLDLR Antibody (clone 1H10) - 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: [24381170](http://www.uniprot.org/citations/24381170)), PubMed: [30873003](http://www.uniprot.org/citations/30873003)). In the off-state of the pathway, forms homooligomers or heterooligomers with LRP8 (PubMed: [30873003](http://www.uniprot.org/citations/30873003)). 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: [30873003](http://www.uniprot.org/citations/30873003)). 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

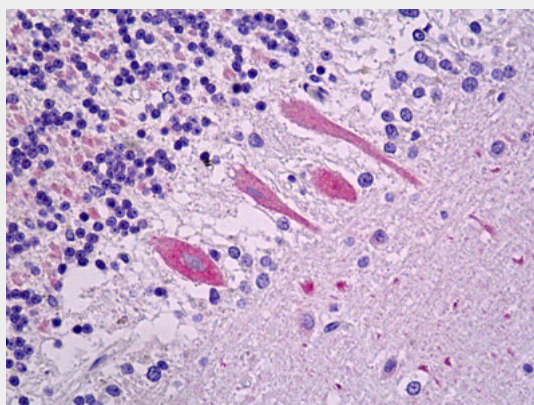
Abundant in heart and skeletal muscle; also ovary and kidney; not in liver

VLDLR Antibody (clone 1H10) - 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](#)

VLDLR Antibody (clone 1H10) - Images



Anti-VLDLR antibody IHC of human brain, cerebellum, Purkinje.

VLDLR Antibody (clone 1H10) - Background

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).

VLDLR Antibody (clone 1H10) - References

Gafvels M.E., et al. *Somat. Cell Mol. Genet.* 19:557-569(1993).
Webb J.C., et al. *Hum. Mol. Genet.* 3:531-537(1994).
Sakai J., et al. *J. Biol. Chem.* 269:2173-2182(1994).
Oka K., et al. *Genomics* 20:298-300(1994).
Humphray S.J., et al. *Nature* 429:369-374(2004).