SANTA CRUZ BIOTECHNOLOGY, INC.

VLDLR (N-17): sc-10107



BACKGROUND

VLDLR (very low density lipoprotein receptor) is a member of the LDL receptor gene family, which includes LDL receptor, LRP, Megalin, VLDLR and ApoER2. The LDL receptor family is characterized by a cluster of cysteine-rich class A repeats, epidermal growth factor (EGF)-like repeats, YWTD repeats and an O-linked sugar domain. VLDLR is expressed in brain, heart, skeletal muscle and adipose tissue. It associates with RAP (receptor associated protein) during receptor folding, and RAP facilitates the secretion of the extracellular region of VLDLR. VLDLR is thought to mediate the interaction of extracellular Reelin and cytosolic mDab1 (mammalian disabled protein), which activates a tyrosine kinase. This pathway regulates the migration of neurons along the radial glial fiber network during brain development.

CHROMOSOMAL LOCATION

Genetic locus: VLDLR (human) mapping to 9p24.2; VldIr (mouse) mapping to 19 C1.

SOURCE

VLDLR (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of VLDLR of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-10107 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VLDLR (N-17) is recommended for detection of VLDLR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

VLDLR (N-17) is also recommended for detection of VLDLR in additional species, including canine and bovine.

Suitable for use as control antibody for VLDLR siRNA (h): sc-36822, VLDLR siRNA (m): sc-36823, VLDLR shRNA Plasmid (h): sc-36822-SH, VLDLR shRNA Plasmid (m): sc-36823-SH, VLDLR shRNA (h) Lentiviral Particles: sc-36822-V and VLDLR shRNA (m) Lentiviral Particles: sc-36823-V.

Molecular Weight of unglycosylated VLDLR: 143 kDa.

Molecular Weight of fully glycosylated VLDLR: 161 kDa.

Positive Controls: A-10 cell lysate: sc-3806 or HeLa whole cell lysate: sc-2200.

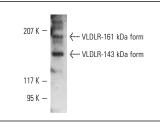
STORAGE

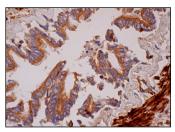
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immuno-histochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA





VLDLR (N-17): sc-10107. Western blot analysis of VLDLR isoform expression in A-10 whole cell lysate

VLDLR (N-17): sc-10107. Immunoperoxidase staining of formalin fixed, paraffin-embedded human bronchus tissue showing cytoplasmic staining of respiratory epithelial cells and cytoplasmic and membrane staining of smooth muscle cells.

SELECT PRODUCT CITATIONS

- 1. Deane, R., et al. 2004. LRP/Amyloid β-peptide interaction mediates differential brain efflux of Aβ isoforms. Neuron 43: 333-344.
- Schnaufer, C., et al. 2009. Outgrowing olfactory axons contain the Reelin receptor VLDLR and navigate through the Reelin-rich cribriform mesenchyme. Cell Tissue Res. 337: 393-406.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfation Guaranteed

Try VLDLR (6A6): sc-18824 or VLDLR (E-8): sc-390555, our highly recommended monoclonal alternatives to VLDLR (N-17). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see VLDLR (6A6): sc-18824.