## SANTA CRUZ BIOTECHNOLOGY, INC.

# LDLR (N-17): sc-11822



## BACKGROUND

LDLR (low density lipoprotein receptor) is a member of the LDL receptor gene family, which includes LDLR, 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. The LDL receptor is a cell surface transmembrane protein that mediates the uptake of low density lipoprotein and its degradation in the lyso-some, which provides cholesterol to cells. The cytoplasmic domain of the LDL receptor is necessary for the receptor to cluster in coated pits, which promotes the rapid endocytosis of bound LDL. Mutations in LDLR cause the autosomal dominant disease familial hypercholesterolemia (FH), which promotes premature coronary atherosclerosis.

## CHROMOSOMAL LOCATION

Genetic locus: LDLR (human) mapping to 19p13.2.

#### SOURCE

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

#### PRODUCT

Each vial contains 100  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11822 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **STORAGE**

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

#### PROTOCOLS

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

## APPLICATIONS

LDLR (N-17) is recommended for detection of LDLR of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for LDLR siRNA (h): sc-35802, LDLR shRNA Plasmid (h): sc-35802-SH and LDLR shRNA (h) Lentiviral Particles: sc-35802-V.

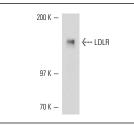
Molecular Weight of LDLR: 160 kDa.

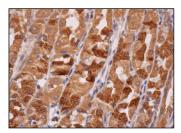
Positive Controls: CCD-1064Sk cell lysate: sc-2263 or Raji whole cell lysate: sc-364236.

#### **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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941. 4) Immuno-histochemistry: use ImmunoCruz<sup>™</sup>: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA





LDLR (N-17): sc-11822. Western blot analysis of LDLR expression in Raji whole cell lysate.

LDLR (N-17): sc-11822. Immunoperoxidase staining of formalin fixed, paraffin-embedded human upper stomach tissue showing cytoplasmic staining of glandular cells.

#### SELECT PRODUCT CITATIONS

- Arjuman, A., et al. 2011. Effect of a combination oral contraceptive (desogestrel + ethinyl estradiol) on the expression of low-density lipoprotein receptor and its transcription factor (SREBP2) in placental trophoblast cells. Contraception 84: 160-168.
- Pandey, H., et al. 2011. Reciprocal coordination of a combination oral contraceptive containing desogestrel+ethinyl estradiol on the expression of LOX-1 and LDLR in placental trophoblast cells. Contraception 84: e43-e49.
- Shilpa, S., et al. 2013. Regulation of autophagy in rat hepatocytes treated in vitro with low concentration of mercury. Toxicol. Environ. Chem. 95: 3.

#### **RESEARCH USE**

MONOS

Satisfation

Guaranteed

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

#### Try LDLR (C7): sc-18823 or LDLR (F-7): sc-373830, our highly recommended monoclonal alternatives to

LDLR (N-17). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see LDLR (C7): sc-18823.