

LDLRAD3 (S-16): sc-139523

BACKGROUND

Members of the low-density lipoprotein receptor (LDLR) gene family mediate the endocytosis of extracellular ligands. LDLRAD3 (LDLR class A domain-containing protein 3) is a 345 amino acid single-pass type I membrane protein that contains three LDLR class A domains. The gene encoding LDLRAD3 maps to human chromosome 11, which comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded *Atm* gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. *Atm* mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LDLRAD3 (human) mapping to 11p13; *Ldlrad3* (mouse) mapping to 2 E2.

SOURCE

LDLRAD3 (S-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of LDLRAD3 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139523 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LDLRAD3 (S-16) is recommended for detection of LDLRAD3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with LDLRAD1 or LDLRAD2.

LDLRAD3 (S-16) is also recommended for detection of LDLRAD3 in additional species, including equine, canine and avian.

Suitable for use as control antibody for LDLRAD3 siRNA (h): sc-96574, LDLRAD3 siRNA (m): sc-146693, LDLRAD3 shRNA Plasmid (h): sc-96574-SH, LDLRAD3 shRNA Plasmid (m): sc-146693-SH, LDLRAD3 shRNA (h) Lentiviral Particles: sc-96574-V and LDLRAD3 shRNA (m) Lentiviral Particles: sc-146693-V.

Molecular Weight of LDLRAD3: 37 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

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.