



LRCH3 (N-13): sc-103007

BACKGROUND

Members of the leucine-rich repeat family includes LRCH1, LRCH2, LRCH3 and LRCH4. All family members contain one calponin-homology domain and nine leucine-rich repeats. The best characterized leucine-rich repeat family member is LRCH4, which is suggested to be involved in ligand binding in the brain, with expression observed primarily in the hippocampus. As a cell adhesion molecule and signal receptor, LRCH4 may play an important role in maintenance of hippocampus-dependent memories, with defects in the gene possibly contributing to a loss of long-term memory. The gene encoding LRCH3 maps to human chromosome 3, which spans 200 million base pairs and encodes between 1,100 and 1,500 genes. There are three isoforms of LRCH3 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRCH3 (human) mapping to 3q29.

SOURCE

LRCH3 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LRCH3 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-103007 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LRCH3 (N-13) is recommended for detection of LRCH3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family members LRCH1, LRCH2 or LRCH4.

Suitable for use as control antibody for LRCH3 siRNA (h): sc-78126, LRCH3 shRNA Plasmid (h): sc-78126-SH and LRCH3 shRNA (h) Lentiviral Particles: sc-78126-V.

Molecular Weight of LRCH3 isoform 1: 86 kDa.

Molecular Weight of LRCH3 isoform 2: 89 kDa.

Molecular Weight of LRCH3 isoform 3: 79 kDa.

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) 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.

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.