

LRCH3 (S-16): sc-103008

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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- Ikegawa, S. 2007. New gene associations in osteoarthritis: what do they provide, and where are we going? *Curr. Opin. Rheumatol.* 19: 429-434.
- Snelling, S., et al. 2007. Genetic association analysis of LRCH1 as an osteoarthritis susceptibility locus. *Rheumatology* 46: 250-252.
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CHROMOSOMAL LOCATION

Genetic locus: LRCH3 (human) mapping to 3q29; *Lrch3* (mouse) mapping to 16 B3.

SOURCE

LRCH3 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LRCH3 of human origin.

STORAGE

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

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-103008 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LRCH3 (S-16) is recommended for detection of LRCH3 of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family members LRCH1, LRCH2 or LRCH4.

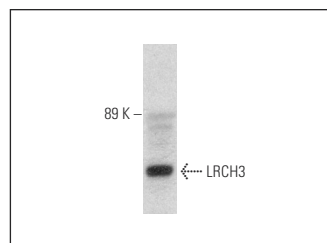
LRCH3 (S-16) is also recommended for detection of LRCH3 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for LRCH3 siRNA (h): sc-78126, LRCH3 siRNA (m): sc-149032, LRCH3 shRNA Plasmid (h): sc-78126-SH, LRCH3 shRNA Plasmid (m): sc-149032-SH, LRCH3 shRNA (h) Lentiviral Particles: sc-78126-V and LRCH3 shRNA (m) Lentiviral Particles: sc-149032-V.

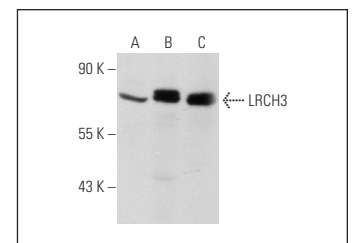
Molecular Weight of LRCH3: 86/89/79 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, mouse brain extract: sc-2253 or rat hippocampus tissue extract.

DATA



LRCH3 (S-16): sc-103008. Western blot analysis of LRCH3 expression in HEL 92.1.7 whole cell lysate.



LRCH3 (S-16): sc-103008. Western blot analysis of LRCH3 expression in HEL 92.1.7 whole cell lysate (A) and mouse brain (B) and rat hippocampus (C) tissue extracts.

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.