

LRRC48 (N-15): sc-138408

BACKGROUND

The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. The primary function of these motifs is to provide a versatile structural framework to mediate the formation of protein-protein interactions. LRRs are present in a variety of proteins with diverse structure and function, including innate immunity and nervous system development. Several human diseases are associated with mutations in genes encoding LRR-containing proteins. LRRC48 (leucine rich repeat containing 48) is a 523 amino acid protein that contains 5 LRR (leucine-rich) repeats and one LRRC domain. Existing as two alternatively spliced isoforms, LRRC48 is encoded by human chromosome 17p11.2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRRC48 (human) mapping to 17p11.2.

SOURCE

LRRC48 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of LRRC48 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 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138408 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LRRC48 (N-15) is recommended for detection of LRRC48 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 other LRRC family members.

LRRC48 (N-15) is also recommended for detection of LRRC48 in additional species, including equine.

Suitable for use as control antibody for LRRC48 siRNA (h): sc-93792, LRRC48 shRNA Plasmid (h): sc-93792-SH and LRRC48 shRNA (h) Lentiviral Particles: sc-93792-V.

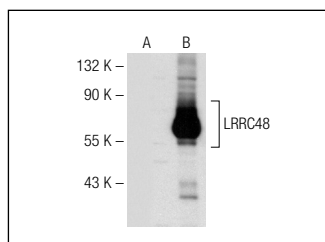
Molecular Weight of LRRC48 isoforms: 61/53 kDa.

Positive Controls: LRRC48 (h4): 293T Lysate: sc-116317 or A549 cell lysate: sc-2413.

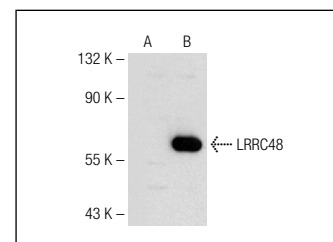
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



LRRC48 (N-15): sc-138408. Western blot analysis of LRRC48 expression in non-transfected: sc-117752 (A) and human LRRC48 transfected: sc-116161 (B) 293T whole cell lysates.



LRRC48 (N-15): sc-138408. Western blot analysis of LRRC48 expression in non-transfected: sc-117752 (A) and human LRRC48 transfected: sc-116317 (B) 293T whole cell lysates.

RESEARCH USE

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