LRRC2 (C-15): sc-103012



The Power to Question

BACKGROUND

Leucine-rich repeats (LRRs) are 20-29 amino acid motifs that mediate protein-protein interactions. The primary function of these motifs is to provide a versatile structural framework for the formation of these 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. The leucine-rich repeat-containing protein 2 (LRRC2) is a 371 amino acid protein that contains 9 LRR repeats. The gene encoding LRRC2 maps to chromosome 3, which encodes over 1,100 genes. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRRC2 (human) mapping to 3p21.31; Lrrc2 (mouse) mapping to 9 F3.

SOURCE

LRRC2 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of LRRC2 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-103012 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LRRC2 (C-15) is recommended for detection of LRRC2 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 other LRRC family members.

LRRC2 (C-15) is also recommended for detection of LRRC2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for LRRC2 siRNA (h): sc-78459, LRRC2 siRNA (m): sc-149059, LRRC2 shRNA Plasmid (h): sc-78459-SH, LRRC2 shRNA Plasmid (m): sc-149059-SH, LRRC2 shRNA (h) Lentiviral Particles: sc-78459-V and LRRC2 shRNA (m) Lentiviral Particles: sc-149059-V.

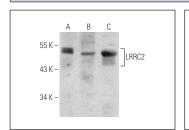
Molecular Weight of LRRC2: 43 kDa.

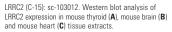
Positive Controls: mouse brain extract: sc-2253, mouse heart extract: sc-2254 or mouse thyroid extract: sc-2407.

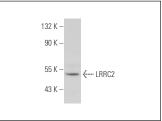
RECOMMENDED SECONDARY REAGENTS

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) 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™ Mounting Medium: sc-24941.

DATA







LRRC2 (C-15): sc-103012. Western blot analysis of LRRC2 expression in human ovary tissue extract.

RESEARCH USE

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