LRRC58 (E-15): sc-247875



The Power to Question

BACKGROUND

LRRC58 (leucine-rich repeat-containing protein 58) is a 371 amino acid protein that contains 9 LRR (leucine-rich) repeats. The gene that encodes LRRC58 consists of approximately 25,000 bases and maps to human chromosome 3q13.33. As one of the largest human chromosomes, chromosome 3 has the lowest rate of segmental duplication in the genome. It also contains a chemokine receptor gene group as well as a number of loci involved in multiple human cancers. There is an average gene density of 8.8 genes per Mb on chromosome 3, making it one of the more gene-poor chromosomes. Although the average gene density is low, the genes that make up chromosome 3 are larger than average and make up about 49% of the chromosome. A 13.6-cM region on 3p21.31-21.2, where a tumor suppressor gene cluster is located, is believed to be a novel locus for nasopharyngeal carcinoma.

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CHROMOSOMAL LOCATION

Genetic locus: LRRC58 (human) mapping to 3q13.33; Lrrc58 (mouse) mapping to 16 B3.

SOURCE

LRRC58 (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LRRC58 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-247875 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LRRC58 (E-15) is recommended for detection of LRRC58 of mouse, rat and 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 other LRRC family members.

LRRC58 (E-15) is also recommended for detection of LRRC58 in additional species, including canine and bovine.

Suitable for use as control antibody for LRRC58 siRNA (m): sc-149096, LRRC58 shRNA Plasmid (m): sc-149096-SH and LRRC58 shRNA (m) Lentiviral Particles: sc-149096-V.

Molecular Weight of LRRC58: 41 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat lgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat lgG-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 lgG-FITC: sc-2024 (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.

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