

# LRRC62 (P-20): sc-86716

## 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 mutation in the genes encoding LRR-containing proteins. The leucine-rich repeat and fibronectin type-III domain-containing protein 62 (LRRC62), also designated extracellular leucine-rich repeat and fibronectin type III domain-containing protein 2 (ELFN2), is a 820 amino acid protein that contains 5 LRR repeats. The gene encoding LRRC62 maps to chromosome 22, which contains over 500 genes and about 49 million bases. Translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein, Bcr-Abl, a potent cell proliferation activator found in several types of leukemia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ELFN2 (human) mapping to 22q13.1; Elfn2 (mouse) mapping to 15 E1.

## SOURCE

LRRC62 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of LRRC62 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-86716 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LRRC62 (P-20) is recommended for detection of LRRC62 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).

LRRC62 (P-20) is also recommended for detection of LRRC62 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LRRC62 siRNA (h): sc-75700, LRRC62 siRNA (m): sc-149100, LRRC62 shRNA Plasmid (h): sc-75700-SH, LRRC62 shRNA Plasmid (m): sc-149100-SH, LRRC62 shRNA (h) Lentiviral Particles: sc-75700-V and LRRC62 shRNA (m) Lentiviral Particles: sc-149100-V.

Molecular Weight (predicted) of LRRC62: 90 kDa.

Molecular Weight (observed) of LRRC62: 90-102 kDa.

Positive Controls: A549 cell lysate: sc-2413 or BJAB whole cell lysate: sc-2207.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.