# SANTA CRUZ BIOTECHNOLOGY, INC.

# LRRC2 (L-17): sc-103013



## BACKGROUND

Leucine-rich repeats (LRRs) are 20-29 amino acid motifs that mediate proteinprotein 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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- Dolan, J., et al. 2007. The extracellular leucine-rich repeat superfamily; a comparative survey and analysis of evolutionary relationships and expression patterns. BMC Genomics 8: 320.
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# CHROMOSOMAL LOCATION

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

## SOURCE

LRRC2 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LRRC2 of human origin.

# PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103013 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

LRRC2 (L-17) 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), 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 (L-17) is also recommended for detection of LRRC2 in additional species, including porcine.

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.

#### **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) Immunofluo-rescence: 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 or our catalog for detailed protocols and support products.