SANTA CRUZ BIOTECHNOLOGY, INC.

# LRRCC1 (Y-15): sc-87989

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*The Power to Question*

## BACKGROUND

Leucine-rich repeats (LRRs) are 20-30 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 the genes encoding LRR-containing proteins. LRRCC1 (leucine rich repeat and coiled-coil domain containing 1), also known as SAP2 or Clerc, is a 1,032 amino acid centrosome protein that belongs to the LRRCC1 family. LRRCC1 associates with the centrosome throughout the cell cycle and accumulates during the mitotic phase. LRRCC1 contains five LRR repeats and exists as three isoforms due to alternative splicing events.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: LRRCC1 (human) mapping to 8q21.2; Lrrcc1 (mouse) mapping to 3 A1.

## SOURCE

LRRCC1 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LRRCC1 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-87989 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LRRCC1 (Y-15) is recommended for detection of LRRCC1 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).

LRRCC1 (Y-15) is also recommended for detection of LRRCC1 in additional species, including canine and porcine.

Suitable for use as control antibody for LRRCC1 siRNA (h): sc-77869, LRRCC1 siRNA (m): sc-149111, LRRCC1 shRNA Plasmid (h): sc-77869-SH, LRRCC1 shRNA Plasmid (m): sc-149111-SH, LRRCC1 shRNA (h) Lentiviral Particles: sc-77869-V and LRRCC1 shRNA (m) Lentiviral Particles: sc-149111-V.

Molecular Weight of LRRCC1: 120 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) 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 or our catalog for detailed protocols and support products.