SANTA CRUZ BIOTECHNOLOGY, INC.

# LRRN2 (E-14): sc-164926

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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. LRRN2 (Leucine-rich repeat neuronal protein 2), also known as GAC1 (Glioma amplified on chromosome 1 protein) and LRRN5 (Leucine-rich repeat neuronal protein 5), is a 713 amino acid single-pass membrane protein that contains one Ig-like C2-type (immunoglobulin-like) domain and 11 LRR (leucine-rich) repeats. The gene encoding GAC1 is amplified and overexpressed in malignant gliomas.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: LRRN2 (human) mapping to 1q32.1; Lrrn2 (mouse) mapping to 1 E4.

## SOURCE

LRRN2 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of LRRN2 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-164926 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LRRN2 (E-14) is recommended for detection of LRRN2 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 LRRN family members.

LRRN2 (E-14) is also recommended for detection of LRRN2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LRRN2 siRNA (h): sc-88490, LRRN2 siRNA (m): sc-149117, LRRN2 shRNA Plasmid (h): sc-88490-SH, LRRN2 shRNA Plasmid (m): sc-149117-SH, LRRN2 shRNA (h) Lentiviral Particles: sc-88490-V and LRRN2 shRNA (m) Lentiviral Particles: sc-149117-V.

Molecular Weight of LRRN2: 79 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.