

LRIG1 (H-108): sc-134435

BACKGROUND

Leucine-rich repeats and immunoglobulin-like domains protein 1, also designated LIG1 or LRIG1, interacts with the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. LRIG1 is a single-pass, type I membrane protein with an ectodomain containing 15 leucine-rich repeats which is sometimes cleaved into N-terminal and C-terminal fragments. LRIG1 is produced in all human glioma cell lines and localizes to perinuclear compartments, cytoplasmic compartments and the cell surface. It acts as a negative feedback regulator of signaling through enhanced receptor ubiquitination and accelerated intracellular degradation. LRIG1 may function as a tumour suppressor since it downregulates the expression of EGF and the related proteins ErbB-2, ErbB-3 and ErbB-4, which all inhibit cancer cells from growth, migration and invasion.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRIG1 (human) mapping to 3p14.1; Lrig1 (mouse) mapping to 6 D2.

SOURCE

LRIG1 (H-108) is a rabbit polyclonal antibody raised against amino acids 103-210 mapping within an N-terminal extracellular domain of LRIG1 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.

APPLICATIONS

LRIG1 (H-108) is recommended for detection of LRIG1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

LRIG1 (H-108) is also recommended for detection of LRIG1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LRIG1 siRNA (h): sc-60966, LRIG1 siRNA (m): sc-60967, LRIG1 shRNA Plasmid (h): sc-60966-SH, LRIG1 shRNA Plasmid (m): sc-60967-SH, LRIG1 shRNA (h) Lentiviral Particles: sc-60966-V and LRIG1 shRNA (m) Lentiviral Particles: sc-60967-V.

Molecular Weight of LRIG1: 143 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.



MONOS
Satisfation
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Try **LRIG1 (B-2): sc-514577**, our highly recommended monoclonal alternative to LRIG1 (H-108).