SANTA CRUZ BIOTECHNOLOGY, INC.

NEGR1 (S-13): sc-137627

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

NEGR1 (neuronal growth regulator 1), also known as neurotractin, IGLON4 (IgLON family member 4), Ntra, DMML2433 or KILON, is a 354 amino acid protein belonging to the IgLON family and immunoglobulin superfamily. NEGR1 may play a role in cell adhesion and regenerative axon sprouting in the mammalian brain and is highly expressed in adult hippocampus, cerebrum and brainstem, with much lower levels found in cerebellum. Localizing to the cell membrane at the glycosylphosphatidylinositol anchor (GPI) anchor, NEGR1 contains three Ig-like C2-type (immunoglobulin-like) domains. NEGR1 is encoded by a gene that maps to human chromosome 1p31.1, and is one of several loci associated with body mass index (BMI), possibly contributing to the development of obesity.

CHROMOSOMAL LOCATION

Genetic locus: NEGR1 (human) mapping to 1p31.1; Negr1 (mouse) mapping to 3 H4.

SOURCE

NEGR1 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NEGR1 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-137627 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

NEGR1 (S-13) is recommended for detection of NEGR1 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).

NEGR1 (S-13) is also recommended for detection of NEGR1 in additional species, including canine.

Suitable for use as control antibody for NEGR1 siRNA (h): sc-88093, NEGR1 siRNA (m): sc-149901, NEGR1 shRNA Plasmid (h): sc-88093-SH, NEGR1 shRNA Plasmid (m): sc-149901-SH, NEGR1 shRNA (h) Lentiviral Particles: sc-88093-V and NEGR1 shRNA (m) Lentiviral Particles: sc-149901-V.

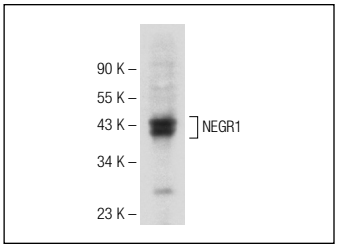
Molecular Weight of NEGR1: 39 kDa.

Positive Controls: A-10 cell lysate: sc-3806.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



NEGR1 (S-13): sc-137627. Western blot analysis of NEGR1 expression in mouse brain tissue extract.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.