NEGR1 (H-12): sc-393293

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.

REFERENCES

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

SOURCE
NEGR1 (H-12) is a mouse monoclonal antibody raised against amino acids 38-218 mapping near the N-terminus of NEGR1 of human origin.

PRODUCT
Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NEGR1 (H-12) is available conjugated to agarose (sc-393293 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393293 HRP), 200 µg/ml, for WB, HRP and ELISA; to either phycocerythrin (sc-393293 PE), fluorescein (sc-393293 FITC), Alexa Fluor® 488 (sc-393293 AF488), Alexa Fluor® 546 (sc-393293 AF546), Alexa Fluor® 594 (sc-393293 AF594) or Alexa Fluor® 647 (sc-393293 AF647), 200 µg/ml, for WB (RGB), IF, HRP and FCM; and to either Alexa Fluor® 680 (sc-393293 AF680) or Alexa Fluor® 790 (sc-393293 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE
Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS
NEGR1 (H-12) is recommended for detection of NEGR1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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: human hippocampus tissue extract, rat brain extract: sc-2392 or mouse brain extract: sc-2253.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000). Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG HRP-PE: sc-516140 or m-IgG HRP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures.

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