SANTA CRUZ BIOTECHNOLOGY, INC.

NTR3 (H-300): sc-30217

SANTA CRUZ®

BIOTECHNOLOGY

The Power to Question

BACKGROUND

Neurotensin (NT) initiates an intracellular response by interacting with the G protein-coupled receptors NTR1 (NTS1 receptor, high affinity NTR) and NTR2 (NTS2 receptor, levocabastine-sensitive Neurotensin receptor), and the type I receptor NTR3 (NTS3 receptor, sortilin-1, Gp95). NT has a wide distribution in regions of the brain and in peripheral tissues where NT receptors can contribute to hypotension, hyperglycemia, hypothermia, antinociception and regulation of intestinal motility and secretion. HL-60 cells express NTR1, which can couple to G_q, $G_{i/o}$ or G_s. Alternative splicing of rat NTR2 can generate a 5-transmembrane domain variant isoform that is coexpressed with the full-length NTR2 throughout the brain and spinal cord. NTR3 activation in the murine microglial cell line N11 induces MIP-2, MCP-1, IL-1β and TNFα in an ERK 1/2 and Akt kinase-dependent manner.

CHROMOSOMAL LOCATION

Genetic locus: SORT1 (human) mapping to 1p13.3; Sort1 (mouse) mapping to 3 F3.

SOURCE

NTR3 (H-300) is a rabbit polyclonal antibody raised against amino acids 78-377 mapping within an extracellular domain of NTR3 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.

STORAGE

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

APPLICATIONS

NTR3 (H-300) is recommended for detection of NTR3 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NTR3 (H-300) is also recommended for detection of NTR3 in additional species, including bovine, canine and porcine.

Suitable for use as control antibody for NTR3 siRNA (h): sc-42119, NTR3 siRNA (m): sc-42120, NTR3 shRNA Plasmid (h): sc-42119-SH, NTR3 shRNA Plasmid (m): sc-42120-SH, NTR3 shRNA (h) Lentiviral Particles: sc-42119-V and NTR3 shRNA (m) Lentiviral Particles: sc-42120-V.

Molecular Weight (predicted) of NTR3: 90 kDa.

Molecular Weight (observed) of NTR3: 90-114 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410, MIA PaCa-2 cell lysate: sc-2285 or HeLa whole cell lysate: sc-2200.

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA
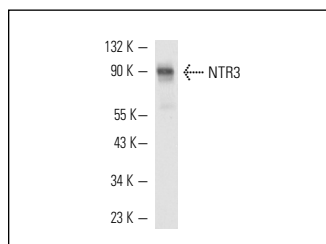
NTR3 (H-300): sc-30217. Western blot analysis of NTR3 expression in MIA PaCa-2 whole cell lysate.
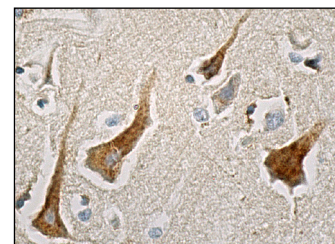
NTR3 (H-300): sc-30217. Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing cytoplasmic staining of neuronal cells.

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
Satisfaction Guaranteed

Try **NTR3 (G-11): sc-376561** or **NTR3 (E-9): sc-376576**, our highly recommended monoclonal alternatives to NTR3 (H-300).