

# NTR3 (C-19): sc-31699

## 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-1 $\beta$  and TNF $\alpha$  in an ERK1/2 and Akt kinase-dependent manner.

## CHROMOSOMAL LOCATION

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

## SOURCE

NTR3 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of NTR3 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-31699 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

NTR3 (C-19) is recommended for detection of NTR3 of human, rat and, to a lesser extent, mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

NTR3 (C-19) is also recommended for detection of NTR3 in additional species, including equine, canine, bovine 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: 92 kDa.

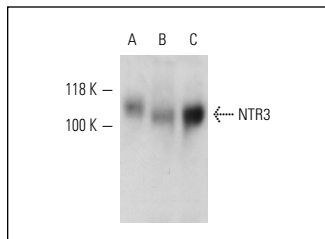
Molecular Weight (observed) of NTR3: 90-114 kDa.

Positive Controls: SW480 cell lysate: sc-2219, SH-SY5Y cell lysate: sc-3812 or SK-N-SH cell lysate: sc-2410.

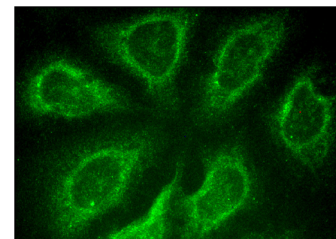
## RECOMMENDED SECONDARY REAGENTS

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



NTR3 (C-19): sc-31699. Western blot analysis of NTR3 expression in SW480 (A), SH-SY5Y (B) and SK-N-SH (C) whole cell lysates.



NTR3 (C-19): sc-31699. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **NTR3 (G-11): sc-376561** or **NTR3 (E-9): sc-376576**, our highly recommended monoclonal alternatives to NTR3 (C-19).