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 Gq, Gi/o, or Gs. Alternative splicing of rat NTR2 can generate a 5-transmembrane domain variant isoform that is co-expressed 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.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: NTSR1 (human) mapping to 20q13.33; Ntsr1 (mouse) mapping to 2 H4.

SOURCE

NTR1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of NTR1 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-7596 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 SDS required.

RESEARCH USE

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

APPLICATIONS

NTR1 (C-20) is recommended for detection of NTR1 of human and, to a lesser extent, mouse and rat 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).

NTR1 (C-20) is also recommended for detection of NTR1 in additional species, including bovine.

Suitable for use as control antibody for NTR1 siRNA (h): sc-36103, NTR1 siRNA (m): sc-36104, NTR1 shRNA Plasmid (h): sc-36103-SH, NTR1 shRNA Plasmid (m): sc-36104-SH, NTR1 shRNA (h) Lentiviral Particles: sc-36103-V and NTR1 shRNA (m) Lentiviral Particles: sc-36104-V.

Molecular Weight of NTR1: 52/54 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409 or T98G cell lysate: sc-2294.

DATA

NTR1 (C-20): sc-7596. Western blot analysis of NTR1 expression in mouse cerebellum extract.

SELECT PRODUCT CITATIONS


Try NTR1 (B-12): sc-376958 or NTR1 (B-9): sc-374492, our highly recommended monoclonal alternatives to NTR1 (C-20).