

NTR2 (H-85): sc-67011

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 β and TNF α in an ERK 1/2 and Akt kinase-dependent manner.

REFERENCES

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- Choi, S.Y., et al. 1999. Characterization of high affinity neurotensin receptor NTR1 in HL-60 cells and its downregulation during granulocytic differentiation. *Br. J. Pharmacol.* 126: 1050-1056.
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- Chen, L., et al. 2004. Neurotensin depolarizes globus pallidus neurons in rats via neurotensin type 1 receptor. *Neuroscience* 125: 853-859.
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CHROMOSOMAL LOCATION

Genetic locus: NTSR2 (human) mapping to 2p25.1; Ntsr2 (mouse) mapping to 12 A1.1.

SOURCE

NTR2 (H-85) is a rabbit polyclonal antibody raised against amino acids 116-200 mapping within an internal region of NTR2 of human origin.

PRODUCT

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

APPLICATIONS

NTR2 (H-85) is recommended for detection of NTR2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

NTR2 (H-85) is also recommended for detection of NTR2 in additional species, including canine, bovine and porcine.

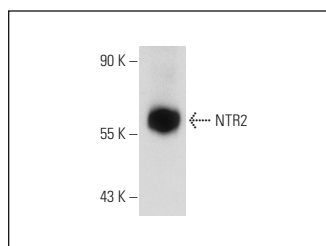
Suitable for use as control antibody for NTR2 siRNA (h): sc-44483, NTR2 siRNA (m): sc-44484, NTR2 shRNA Plasmid (h): sc-44483-SH, NTR2 shRNA Plasmid (m): sc-44484-SH, NTR2 shRNA (h) Lentiviral Particles: sc-44483-V and NTR2 shRNA (m) Lentiviral Particles: sc-44484-V.

Positive Controls: rat cerebellum extract: sc-2398.

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.

DATA



NTR2 (H-85): sc-67011. Western blot analysis of NTR2 expression in rat cerebellum tissue extract.

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.

PROTOCOLS

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