SANTA CRUZ BIOTECHNOLOGY, INC.

Neurotensin (FL-170): sc-20806

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The Power to Question

BACKGROUND

The Neurotensin precursor (also known as Pro-NT/NMN) is a 170 amino acid protein that is cleaved at carboxy-terminal dibasic residues by prohormone convertase to generate 3 processed peptides, designated Neurotensin (NT), Neuromedin N (also known as NMN) and large Neuromedin N (also known as NMN-125). The Neurotensin precursor is processed in the central nervous system and in the intestine to generate the 13 amino acid processed Neurotensin peptide. While the processed Neurotensin peptide functions as a neurotransmitter to modulate dopaminergic signaling pathways in the brain, it acts as a parahormone that may contribute to the growth of human colon cancers in the gut. The processed peptides Neurotensin and Neuromedin N bind to the G protein-coupled Neurotensin receptor (NTR), resulting in the hydrolysis of phosphatidylinositols and the mobilization of calcium.

CHROMOSOMAL LOCATION

Genetic locus: NTS (human) mapping to 12q21.31; Nts (mouse) mapping to 10 D1.

SOURCE

Neurotensin (FL-170) is a rabbit polyclonal antibody raised against amino acids 1-170 representing full length Neurotensin 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

Neurotensin (FL-170) is recommended for detection of Neurotensin 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Neurotensin (FL-170) is also recommended for detection of Neurotensin in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Neurotensin siRNA (h): sc-42115, Neurotensin siRNA (m): sc-42116, Neurotensin shRNA Plasmid (h): sc-42115-SH, Neurotensin shRNA Plasmid (m): sc-42116-SH, Neurotensin shRNA (h) Lentiviral Particles: sc-42115-V and Neurotensin shRNA (m) Lentiviral Particles: sc-42116-V.

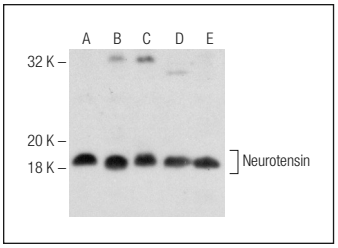
Molecular Weight of Neurotensin: 20 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HT-1080 whole cell lysate: sc-364183 or Caki-1 cell lysate: sc-2224.

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



Neurotensin (FL-170): sc-20806. Western blot analysis of Neurotensin expression in Jurkat (**A**), HT-1080 (**B**), Caki-1 (**C**), IMR-32 (**D**) and K-562 (**E**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Cinar, K., et al. 2006. Immunohistochemical study on distribution of endocrine cells in gastrointestinal tract of flower fish *(Pseudophoxinus antalyae)*. World J. Gastroenterol. 12: 6874-6878.
2. Koon, H.W., et al. 2009. Neurotensin induces IL-6 secretion in mouse preadipocytes and adipose tissues during 2,4,6,-trinitrobenzensulphonic acid-induced colitis. Proc. Natl. Acad. Sci. USA 106: 8766-8771.

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.