

NETO1 (D-17): sc-82244

BACKGROUND

NETO1 (neuropilin (NRP) and tolloid (TLL)-like 1), also known as BCTL1, is a 533 amino acid protein that contains one LDL-receptor class A domain and 2 CUB domains and is either membrane-bound or secreted. Expressed as three alternatively spliced isoforms, the first two of which are retina-specific and the third of which is found in both retina and brain tissue, NETO1 is thought to be involved in the development and maintenance of neuronal circuitry, possibly playing a role in proper brain function. Human NETO1 shares 95% amino acid identity with its mouse counterpart, suggesting a conserved role between species. The gene encoding NETO1 maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

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CHROMOSOMAL LOCATION

Genetic locus: NETO1 (human) mapping to 18q22.3; Neto1 (mouse) mapping to 18 E4.

SOURCE

NETO1 (D-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of NETO1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82244 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NETO1 (D-17) is recommended for detection of NETO1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with family member NETO 2.

NETO1 (D-17) is also recommended for detection of NETO1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for NETO1 siRNA (h): sc-75901, NETO1 siRNA (m): sc-75902, NETO1 shRNA Plasmid (h): sc-75901-SH, NETO1 shRNA Plasmid (m): sc-75902-SH, NETO1 shRNA (h) Lentiviral Particles: sc-75901-V and NETO1 shRNA (m) Lentiviral Particles: sc-75902-V.

Molecular Weight of NETO1 precursor: 58 kDa.

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) 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.

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.