Teneurin-3 (P-12): sc-136918



The Boures to Overtion

BACKGROUND

Teneurin-3, also known as Ten-3, TNM3 or ODZ3, is a 2,699 amino acid single-pass type II membrane protein that contains 25 YD repeats, 8 EGF-like domains, 5 NHL repeats and one Teneurin N-terminal domain. Localized to the membrane and expressed in brain, testis and ovary, Teneurin-3 exists as a disulfide-liked homodimer that is thought to function as a cellular signal transducer. Additionally, Teneurin-3 may participate in eye-specific patterning in the visual pathway and is required for aligned binocular vision. The gene encoding Teneurin-3 maps to chromosome 4. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes, one of which is the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ODZ3 (human) mapping to 4q35.1; Odz3 (mouse) mapping to 8 B1.2.

SOURCE

Teneurin-3 (P-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of Teneurin-3 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-136918 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Teneurin-3 (P-12) is recommended for detection of Teneurin-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Teneurin-1 or Teneurin-2.

Teneurin-3 (P-12) is also recommended for detection of Teneurin-3 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Teneurin-3 siRNA (h): sc-106789, Teneurin-3 siRNA (m): sc-154191, Teneurin-3 shRNA Plasmid (h): sc-106789-SH, Teneurin-3 shRNA Plasmid (m): sc-154191-SH, Teneurin-3 shRNA (h) Lentiviral Particles: sc-106789-V and Teneurin-3 shRNA (m) Lentiviral Particles: sc-154191-V.

Molecular Weight of Teneurin-3: 301 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit lgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit lgG-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 lgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit lgG-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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com