

Teneurin-2 (L-13): sc-165673

BACKGROUND

Teneurins represent a highly conserved family of four type II transmembrane proteins in vertebrates. They exist as homodimers and participate in homophilic interactions. Teneurin-2, also known as ODZ2 (odz, odd Oz/ten-m homolog 2), TNM2 (tenascin-M2) or TEN-M2, is a 2,774 single-pass type II membrane protein that is highly expressed in heart, brain, liver and kidney, and weakly expressed in lung and testis. Belonging to the tenascin family and the Teneurin subfamily, Teneurin-2 is thought to function as a cellular signal transducer. Existing as a homodimer, Teneurin-2 contains eight EGF-like domains, five NHL repeats, a teneurin N-terminal domain and twenty-three YD repeats. The cytoplasmic proline-rich regions of Teneurin-2 may serve as docking domains for intracellular SH3-containing proteins. Teneurin-2 is encoded by the ODZ2 gene, which is located on human chromosome 5q34.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ODZ2 (human) mapping to 5q34; Odz2 (mouse) mapping to 11 A4.

SOURCE

Teneurin-2 (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal extracellular domain of Teneurin-2 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-165673 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Teneurin-2 (L-13) is recommended for detection of Teneurin-2 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 Teneurin-1 or Teneurin-3.

Suitable for use as control antibody for Teneurin-2 siRNA (h): sc-92017, Teneurin-2 siRNA (m): sc-154190, Teneurin-2 shRNA Plasmid (h): sc-92017-SH, Teneurin-2 shRNA Plasmid (m): sc-154190-SH, Teneurin-2 shRNA (h) Lentiviral Particles: sc-92017-V and Teneurin-2 shRNA (m) Lentiviral Particles: sc-154190-V.

Molecular Weight of Teneurin-2: 308 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.