

Tenrl (E-12): sc-136921

BACKGROUND

Tenrl (testis nuclear RNA-binding protein-like), also known as ADAD2 (adenosine deaminase domain containing 2), is a 583 amino acid protein belonging to the ADAD family and contains an A to I editase domain and a DRBM (double-stranded RNA-binding) domain. Expressed as two alternatively spliced isoforms, Tenrl is encoded by a gene located on human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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4. Carneiro, L.A., et al. 2007. Nod-like receptors in innate immunity and inflammatory diseases. *Ann. Med.* 39: 581-593.
5. King, K., et al. 2007. Identification, evolution, and association study of a novel promoter and first exon of the human NOD2 (CARD15) gene. *Genomics* 90: 493-501.
6. Gervasini, C., et al. 2007. High frequency of mosaic CREBBP deletions in Rubinstein-Taybi syndrome patients and mapping of somatic and germ-line breakpoints. *Genomics* 90: 567-573.
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8. Tattoli, I., et al. 2007. The nodosome: NOD1 and NOD2 control bacterial infections and inflammation. *Semin. Immunopathol.* 29: 289-301

CHROMOSOMAL LOCATION

Genetic locus: ADAD2 (human) mapping to 16q24.1; Adad2 (mouse) mapping to 8 E1.

SOURCE

Tenrl (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Tenrl 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-136921 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Tenrl (E-12) is recommended for detection of Tenrl isoforms 1 and 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).

Tenrl (E-12) is also recommended for detection of Tenrl isoforms 1 and 2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Tenrl siRNA (h): sc-93359, Adad2 siRNA (m): sc-140851, Tenrl shRNA Plasmid (h): sc-93359-SH, Adad2 shRNA Plasmid (m): sc-140851-SH, Tenrl shRNA (h) Lentiviral Particles: sc-93359-V and Adad2 shRNA (m) Lentiviral Particles: sc-140851-V.

Molecular Weight of Tenrl isoforms: 61/71 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.