

Tenr (H-81): sc-135430

BACKGROUND

Tenr (testis nuclear RNA-binding protein), also known as ADAD1 (adenosine deaminase domain containing 1), is a 576 amino acid nuclear protein that plays a role in spermatogenesis and belongs to the ADAD family. Existing as three alternatively spliced isoforms, Tenr contains one A to I editase domain and a DRBM (double-stranded RNA-binding) domain. The gene encoding Tenr maps to human chromosome 4, which represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. 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

- Schumacher, J.M., et al. 1995. Distribution of Tenr, an RNA-binding protein, in a lattice-like network within the spermatid nucleus in the mouse. *Biol. Reprod.* 52: 1274-1283.
- Bonaventure, J., et al. 1996. Common mutations in the fibroblast growth factor receptor 3 (FGFR 3) gene account for achondroplasia, hypochondroplasia, and thanatophoric dwarfism. *Am. J. Med. Genet.* 63: 148-154.
- Kalchman, M.A., et al. 1996. Huntingtin is ubiquitinated and interacts with a specific ubiquitin-conjugating enzyme. *J. Biol. Chem.* 271: 19385-19394.
- Howard, T.D., et al. 1997. Autosomal dominant postaxial polydactyly, nail dystrophy, and dental abnormalities map to chromosome 4p16, in the region containing the Ellis-van Creveld syndrome locus. *Am. J. Hum. Genet.* 61: 1405-1412.
- Mian, I.S., et al. 1998. Statistical modelling and phylogenetic analysis of a deaminase domain. *J. Comput. Biol.* 5: 57-72.
- Sommardahl, C., et al. 2001. Phenotypic variations of orpk mutation and chromosomal localization of modifiers influencing kidney phenotype. *Physiol. Genomics* 7: 127-134.

CHROMOSOMAL LOCATION

Genetic locus: ADAD1 (human) mapping to 4q27; Adad1 (mouse) mapping to 3 B.

SOURCE

Tenr (H-81) is a rabbit polyclonal antibody raised against amino acids 292-372 mapping within an internal region of Tenr 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

Tenr (H-81) is recommended for detection of Tenr 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).

Tenr (H-81) is also recommended for detection of Tenr in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Tenr siRNA (h): sc-89119, Tenr siRNA (m): sc-154192, Tenr shRNA Plasmid (h): sc-89119-SH, Tenr shRNA Plasmid (m): sc-154192-SH, Tenr shRNA (h) Lentiviral Particles: sc-89119-V and Tenr shRNA (m) Lentiviral Particles: sc-154192-V.

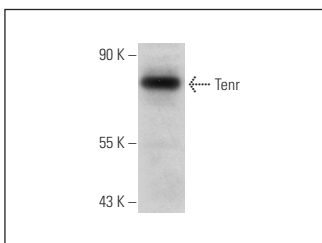
Molecular Weight of Tenr isoforms: 64/63/62 kDa.

Positive Controls: NTERA-2 cl.D1 whole cell lysate: sc-364181 or MDA-MB-231 cell lysate: sc-2232.

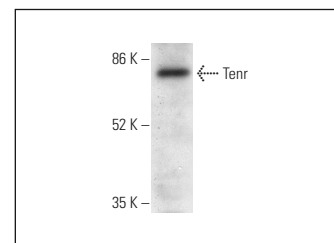
RECOMMENDED SECONDARY REAGENTS

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



Tenr (H-81): sc-135430. Western blot analysis of Tenr expression in MDA-MB-231 whole cell lysate.



Tenr (H-81): sc-135430. Western blot analysis of Tenr expression in NTERA-2 cl.D1 whole cell lysates.

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.