

TRM11 (N-14): sc-139099

BACKGROUND

TRM11 (tRNA guanosine-2'-O-methyltransferase TRM11 homolog) is a 463 amino acid protein that belongs to the methyltransferase superfamily. TRM11 is believed to be the catalytic subunit of an S-adenosyl-L-methionine-dependent tRNA methyltransferase complex that mediates the methylation of the guanosine nucleotide at position 10 (m2G10) in tRNAs. The gene encoding TRM11 maps to a region on chromosome 6 that is shared by 7 other genes, which have been linked to diffuse panbronchiolitis. Chromosome 6 contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRMT11 (human) mapping to 6q22.32; Trmt11 (mouse) mapping to 10 A4.

SOURCE

TRM11 (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of TRM11 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-139099 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRM11 (N-14) is recommended for detection of TRM11 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).

TRM11 (N-14) is also recommended for detection of TRM11 in additional species, including bovine and porcine.

Suitable for use as control antibody for TRM11 siRNA (h): sc-95500, TRM11 siRNA (m): sc-154680, TRM11 shRNA Plasmid (h): sc-95500-SH, TRM11 shRNA Plasmid (m): sc-154680-SH, TRM11 shRNA (h) Lentiviral Particles: sc-95500-V and TRM11 shRNA (m) Lentiviral Particles: sc-154680-V.

Molecular Weight of TRM11: 53 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.