

RG9MTD1 (L-20): sc-103147

BACKGROUND

The RNA methyltransferase family of proteins catalyze the transfer of a methyl group from a donor to an RNA acceptor. Via their ability to modify RNA, RNA methyltransferase proteins play an important role in cell growth and signaling pathways and may be involved in tumor development and progression. The RNA (guanine-9-) methyltransferase domain containing proteins (namely RG9MTD1, RG9MTD2 and RG9MTD3) are probable RNA methyltransferases that may play a role in RNA modification. Due to their involvement in RNA-related pathways, the RG9MTD proteins may be associated with methylation events that lead to carcinogenesis. While both RG9MTD1 and RG9MTD2 exist as one known isoform, RG9MTD3 is expressed as three isoforms produced by alternative splicing events.

REFERENCES

1. Scanlan, M.J., et al. 1999. Antigens recognized by autologous antibody in patients with renal-cell carcinoma. *Int. J. Cancer* 83: 456-464.
2. Lu, Y.Y., et al. 2003. Screening of the genes of hepatitis B virus PreS2 interacting proteins. *Zhonghua Gan Zang Bing Za Zhi* 11: 8-10.

CHROMOSOMAL LOCATION

Genetic locus: RG9MTD1 (human) mapping to 3q12.3; Rg9mtd1 (mouse) mapping to 16 C1.1.

SOURCE

RG9MTD1 (L-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RG9MTD1 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-103147 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RG9MTD1 (L-20) is recommended for detection of RG9MTD1 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); non cross-reactive with family members RG9MTD2 or RG9MTD3. RG9MTD1 (L-20) is also recommended for detection of RG9MTD1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for RG9MTD1 siRNA (h): sc-78547, RG9MTD1 siRNA (m): sc-152830, RG9MTD1 shRNA Plasmid (h): sc-78547-SH, RG9MTD1 shRNA Plasmid (m): sc-152830-SH, RG9MTD1 shRNA (h) Lentiviral Particles: sc-78547-V and RG9MTD1 shRNA (m) Lentiviral Particles: sc-152830-V.

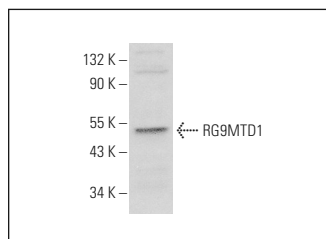
Molecular Weight of RG9MTD1: 47 kDa.

Positive Controls: RT-4 whole cell lysate: sc-364257.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



RG9MTD1 (L-20): sc-103147. Western blot analysis of RG9MTD1 expression in RT-4 whole cell lysate.

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.

MONOS
Satisfaction
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Try **RG9MTD1 (A-8): sc-515289**, our highly recommended monoclonal alternative to RG9MTD1 (L-20).