

METT5D1 (C-18): sc-247955

BACKGROUND

METT5D1 (methyltransferase 5 domain-containing protein 1), also known as METTL15 (methyltransferase like 15), is a 407 amino acid protein that is thought to function as an S-adenosyl-L-methionine-dependent methyltransferase. Existing as four alternatively spliced isoforms, METT5D1 belongs to the RsmH family and methyltransferase superfamily. The gene encoding METT5D1 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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2. Jira, P.E., Waterham, H.R., Wanders, R.J., Smeitink, J.A., Sengers, R.C. and Wevers, R.A. 2003. Smith-Lemli-Opitz syndrome and the DHCR7 gene. *Ann. Hum. Genet.* 67: 269-280.
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CHROMOSOMAL LOCATION

Genetic locus: METTL15 (human) mapping to 11p14.1; Mettl15 (mouse) mapping to 2 E3.

SOURCE

METT5D1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of METT5D1 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-247955 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

METT5D1 (C-18) is recommended for detection of METT5D1 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 METT5D2.

METT5D1 (C-18) is also recommended for detection of METT5D1 in additional species, including porcine.

Suitable for use as control antibody for METT5D1 siRNA (h): sc-96813, METT5D1 siRNA (m): sc-149381, METT5D1 shRNA Plasmid (h): sc-96813-SH, METT5D1 shRNA Plasmid (m): sc-149381-SH, METT5D1 shRNA (h) Lentiviral Particles: sc-96813-V and METT5D1 shRNA (m) Lentiviral Particles: sc-149381-V.

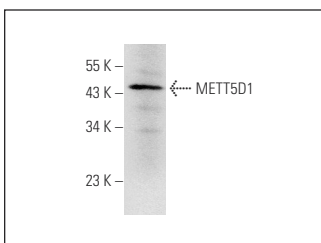
Molecular Weight of METT5D1 isoforms: 46/31/12/32 kDa.

Positive Controls: mouse cerebellum extract: sc-2403.

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



METT5D1 (C-18): sc-247955. Western blot analysis of METT5D1 expression in mouse cerebellum tissue extract.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.