

METTL11A (T-13): sc-243462

BACKGROUND

METTL11A (methyltransferase like 11A), also known as α N-terminal protein methyltransferase 1A, NTM1A, NRMT, N-terminal RCC1 methyltransferase, X-Pro-Lys N-terminal protein methyltransferase 1A or AD-003, is a 223 amino acid nuclear protein that belongs to the NTM1 family and methyltransferase superfamily. Existing as 2 alternatively spliced isoforms, METTL11A is encoded by a gene that maps to human chromosome 9, which consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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8. Hims, M.M., et al. 2007. A humanized IKBKAP transgenic mouse models a tissue-specific human splicing defect. *Genomics* 90: 389-396.
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CHROMOSOMAL LOCATION

Genetic locus: METTL11A (human) mapping to 9q34.11; Mettl11a (mouse) mapping to 2 B.

SOURCE

METTL11A (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of METTL11A of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243462 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

METTL11A (T-13) is recommended for detection of METTL11A 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); non cross-reactive with METTL11B.

METTL11A (N-13) is also recommended for detection of METTL11A in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for METTL11A siRNA (h): sc-92868, METTL11A siRNA (m): sc-149384, METTL11A shRNA Plasmid (h): sc-92868-SH, METTL11A shRNA Plasmid (m): sc-149384-SH, METTL11A shRNA (h) Lentiviral Particles: sc-92868-V and METTL11A shRNA (m) Lentiviral Particles: sc-149384-V.

Molecular Weight of METTL11A: 25 kDa.

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.