



METTL4 (N-20): sc-85054

BACKGROUND

METTL4 (Methyltransferase-like protein 4) is a 472 amino acid enzyme that belongs to the MT-A70-like family. Other members of this family have enzymatic activity that results in the transfer of a methyl group to and from DNA, RNA or amino acids. The gene encoding METTL4 maps to chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases, representing about 2.5% of total DNA in cells. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas. Also, three chromosomal abnormalities result from meiotic nondisjunction events of chromosome 18: Monosomy 18p, Trisomy 18 (also known as Edwards syndrome) and Tetrasomy 18p.

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CHROMOSOMAL LOCATION

Genetic locus: METTL4 (human) mapping to 18p11.32; Mettl4 (mouse) mapping to 17 E5.

SOURCE

METTL4 (N-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of METTL4 of human origin.

RESEARCH USE

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

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-85054 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-85054 X, 100 µg/0.1 ml.

APPLICATIONS

METTL4 (N-20) is recommended for detection of METTL4 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).

Suitable for use as control antibody for METTL4 siRNA (h): sc-75777, METTL4 siRNA (m): sc-149388, METTL4 shRNA Plasmid (h): sc-75777-SH, METTL4 shRNA Plasmid (m): sc-149388-SH, METTL4 shRNA (h) Lentiviral Particles: sc-75777-V and METTL4 shRNA (m) Lentiviral Particles: sc-149388-V.

METTL4 (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of METTL4: 54 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.

PROTOCOLS

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