

# METTL2 (M-14): sc-164998

## BACKGROUND

METTL2 (methyltransferase-like protein 2) is a 389 amino acid mouse protein that belongs to the methyltransferase superfamily and the METL family. Acting as a methyltransferase, METTL2 exists as two alternatively spliced isoforms. The human homolog of this protein, METTL2, also known as METTL2A, is a 378 amino acid protein that also exists as 2 alternatively spliced isoforms. The gene that encodes METTL2 maps to mouse chromosome 11 E1 and human chromosome 17q23. Comprising over 2.5% of the human genome, chromosome 17 consists of about 81 million bases, encodes over 1,200 genes and has the highest gene density in the genome. Chromosome 17 is also enriched in segmental duplications, ranking third in density among the autosomes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: *Mettl2* (mouse) mapping to 11 E1.

## SOURCE

METTL2 (M-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of METTL2 of mouse origin.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

## 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-164998 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

METTL2 (M-14) is recommended for detection of METTL2 of mouse 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 other METTL family members.

Suitable for use as control antibody for METTL2 siRNA (m): sc-149386, METTL2 shRNA Plasmid (m): sc-149386-SH and METTL2 shRNA (m) Lentiviral Particles: sc-149386-V.

Molecular Weight of METTL2 isoforms: 44/27 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.

## RESEARCH USE

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