

**METTL4 polyclonal antibody**

Catalog: BS71800

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

N(6-adenine-specific methyltransferase that can methylate both RNAs and DNA. Acts as a N(6-adenine-specific RNA methyltransferase by catalyzing formation of N6,2'-O-dimethyladenosine (m6A) on internal positions of U2 small nuclear RNA (snRNA: methylates the 6th position of adenine residues with a pre-deposited 2'-O-methylation. Internal m6A(m methylation of snRNAs regulates RNA splicing. Also able to act as a N(6-adenine-specific DNA methyltransferase by mediating methylation of DNA on the 6th position of adenine (N(6-methyladenosine. The existence of N(6-methyladenosine (m6A on DNA is however unclear in mammals, and additional evidences are required to confirm the role of the N(6-adenine-specific DNA methyltransferase activity of METTL4 in vivo. Acts as a regulator of mitochondrial transcript levels and mitochondrial DNA (mtDNA copy number by mediating mtDNA N(6-methylation: m6A on mtDNA reduces transcription by repressing TFAM DNA-binding and bending. N(6-methyladenosine deposition by METTL4 regulates Polycomb silencing by triggering ubiquitination and degradation of sensor proteins ASXL1 and MPND, leading to inactivation of the PR-DUB complex and subsequent preservation of Polycomb silencing (By similarity.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

54kDa

Swiss-Prot:

Q8N3J2

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB,1:1000 - 1:2000|IHC,1:50 - 1:200|IF/ICC,1:50 - 1:200

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Category:

Polyclonal Antibodies

DATA:

Western blot analysis of extracts of various cell lines, using METTL4 antibody at 1:2000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit .
Exposure time: 1s.

Immunohistochemistry of paraffin-embedded human lung cancer using METTL4 Rabbit pAb at dilution of 1:50 .Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Immunohistochemistry of paraffin-embedded mouse kidney using METTL4 Rabbit pAb at dilution of 1:50 .Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Immunohistochemistry of paraffin-embedded rat testis using METTL4 Rabbit pAb at dilution of 1:50 .Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Note:

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

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