

Product datasheet for **TA378483**

METTL4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB,1:1000 - 1:2000 IHC,1:50 - 1:200 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-190 of human METTL4 (NP_073751.3).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	54kDa
Gene Name:	methyltransferase like 4
Database Link:	Entrez Gene 64863 Human Q8N3J2



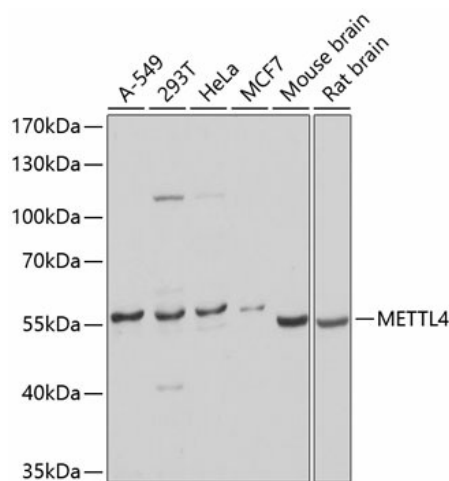
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Background:

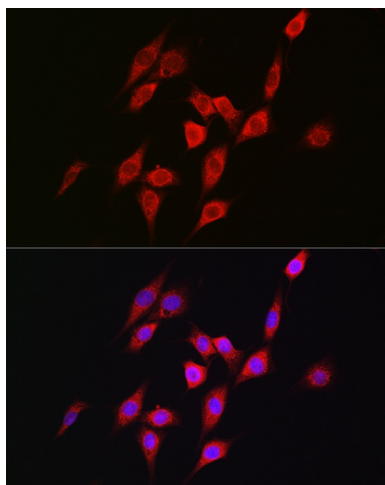
N(6-adenine-specific methyltransferase that can methylate both RNAs and DNA. Acts as a N(6-adenine-specific RNA methyltransferase by catalyzing formation of N6,2'-O-dimethyladenosine (m6A(m on internal positions of U2 small nuclear RNA (snRNA: methylates the 6th position of adenine residues with a pre-deposited 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).

Synonyms:

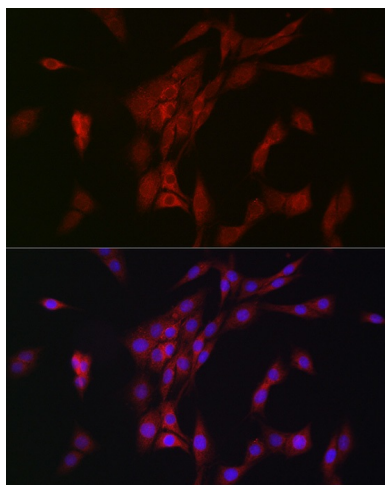
FLJ23017; HsT661; MGC117235

Product images:

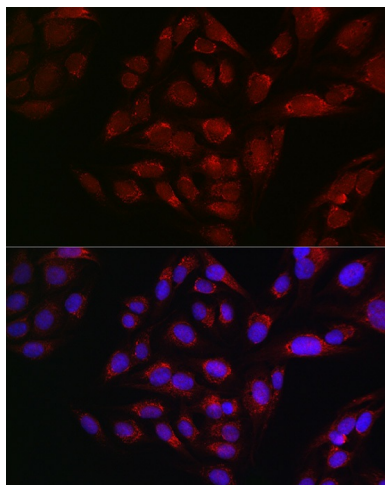
Western blot analysis of extracts of various cell lines, using METTL4 antibody (TA378483) at 1:2000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 1s.



Immunofluorescence analysis of NIH/3T3 cells using METTL4 Rabbit pAb (TA378483) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using METTL4 Rabbit pAb (TA378483) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using METTL4 Rabbit pAb (TA378483) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.