

For Research Use Only

# METTL14 Polyclonal antibody

Catalog Number: 26158-1-AP

Featured Product

141 Publications



## Basic Information

### Catalog Number:

26158-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14325

### GenBank Accession Number:

BC007449

### GeneID (NCBI):

57721

### UNIPROT ID:

Q9HCE5

### Full Name:

methyltransferase like 14

### Calculated MW:

456 aa, 52 kDa

### Observed MW:

55-60 kDa

### Purification Method:

Protein A purification

### Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

### Tested Applications:

WB, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

### Species Specificity:

human

### Cited Species:

human, pig, monkey, chicken

### Positive Controls:

WB : A549 cells, HeLa cells, NCCIT cells, PC-3 cells

IP : A549 cells,

## Background Information

METTL14, is also named as Methyltransferase-like protein 14 or KIAA1627, is a 456 amino acid protein, which belongs to the MT-A70-like family and localized in the nucleus. The METTL3-METTL14 heterodimer forms a N6-methyltransferase complex that methylates adenosine residues of some mRNAs and regulates the circadian clock and differentiation of embryonic stem cells. N6-methyladenosine (m6A), which takes place at the 5'-[AG]GAC-3' consensus sites of some mRNAs, plays a role in the efficiency of mRNA splicing, processing and mRNA stability. M6A regulates the length of the circadian clock: acts as a early pace-setter in the circadian loop. M6A also acts as a regulator of mRNA stability: in embryonic stem cells (ESCs), m6A methylation of mRNAs encoding key naïve pluripotency-promoting transcripts results in transcript destabilization.

## Notable Publications

Author	Pubmed ID	Journal	Application
Seiya Takemoto	34536357	Biochem Pharmacol	WB
FANG YANG	34733365	Oncol Lett	WB
Motoki Isono	36113565	Biochem Pharmacol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

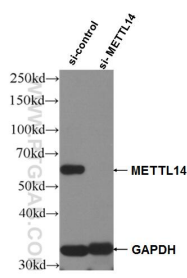
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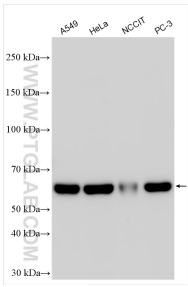
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Selected Validation Data



WB result of METTL14 antibody (26158-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-METTL14 transfected Raji cells.



Various lysates were subjected to SDS PAGE followed by western blot with 26158-1-AP (METTL14 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

IP result of anti-METTL14 (IP:26158-1-AP, 4ug; Detection:26158-1-AP 1:2000) with A549 cells lysate 880 ug.