

# METTL14 Recombinant antibody

Catalog Number: 80790-1-RR

Featured Product

1 Publications

## Basic Information

## Catalog Number:

80790-1-RR

## Size:

1000 µg/ml

## 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

## CloneNo.:

2E7

## Recommended Dilutions:

WB 1:2000-1:14000

IHC 1:1000-1:4000

## Applications

## Tested Applications:

IHC, WB, ELISA

## Cited Applications:

WB, IHC

## Species Specificity:

Human, Mouse

## Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB** : LNCaP cells, HeLa cells, NCCIT cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

**IHC** : human colon cancer tissue,

## 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
Kangjie Wang	36482903	Front Genet	WB,IHC

## Storage

## Storage:

Store at -20°C.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

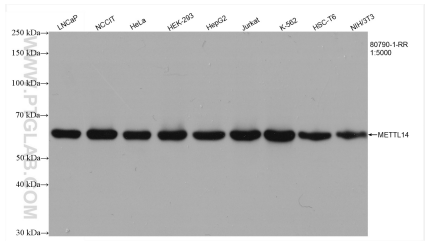
For technical support and original validation data for this product please contact:

T: 4006900926

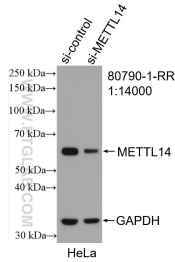
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

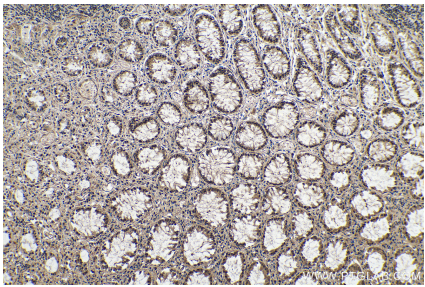
Selected Validation Data



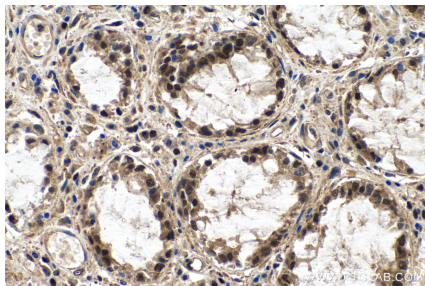
Various lysates were subjected to SDS PAGE followed by western blot with 80790-1-RR (METTL14 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



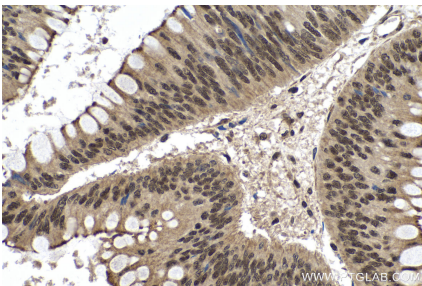
WB result of METTL14 antibody (80790-1-RR; 1:14000; incubated at room temperature for 1.5 hours) with sh-Control and sh-METTL14 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80790-1-RR (METTL14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80790-1-RR (METTL14 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80790-1-RR (METTL14 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).