For Research Use Only

METTL14 Recombinant antibody, PBS Only

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Catalog Number:80790-1-PBS Featured Product

Basic Information

Catalog Number:
80790-1-PBS

Size:
100ug , Concentration: 1 mg/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

CloneNo.:
2E7

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
Human, Mouse

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.

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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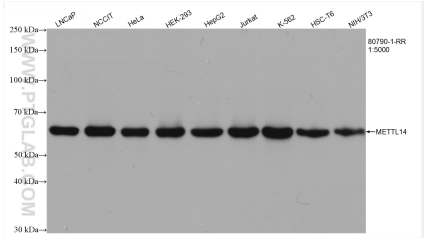
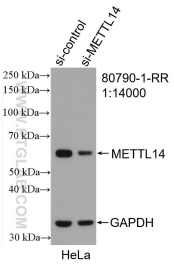
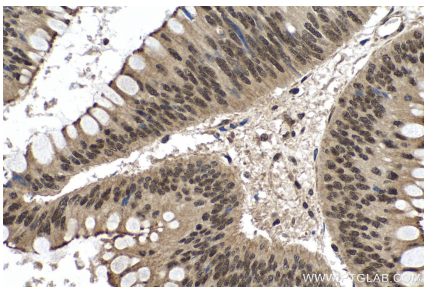
Selected Validation Data



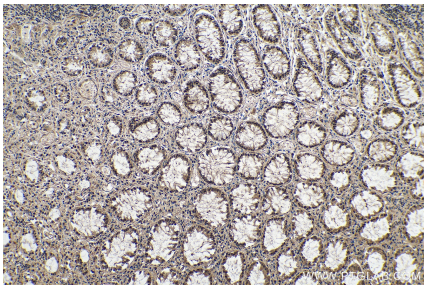
Various lysates were subjected to SDS PAGE followed by western blot with 80790-1-RR (METTL14 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80790-1-PBS in a different storage buffer formulation.



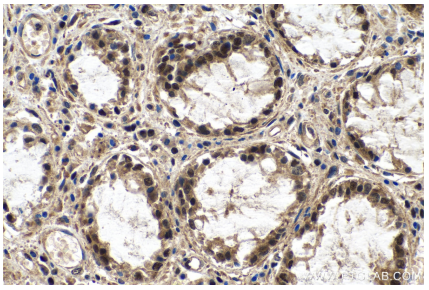
WB result of METTL14 antibody (80790-1-RR; 1:14000; incubated at room temperature for 1.5 hours) with sh-Control and sh-METTL14 transfected HeLa cells. This data was developed using the same antibody clone with 80790-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80790-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80790-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80790-1-PBS in a different storage buffer formulation.