

Datasheet for ABIN6143759  
**anti-METTL14 antibody (AA 1-210)**

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## Overview

Quantity:	100 µL
Target:	METTL14
Binding Specificity:	AA 1-210
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This METTL14 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-210 of human METTL14 (NP_066012.1).
Sequence:	MDSRLQEIRE RQKLRRQLLA QQLGAESADS IGAVLNSKDE QREIAETRET CRASYDTSAP NAKRKYLDEG ETDEDKMEEY KDELEMQQDE ENLPYEEIY KDSSTFLKGT QSLNPHNDYC QHFVDTGHRP QNFIRDVGLA DRFEEYPKLR ELIRLKDELI AKSNTPPMYL QADIEAFDIR ELTPKFDVIL LEPPLEYYR ETGITANEKC
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	METTL14
Alternative Name:	METTL14 ( <a href="#">METTL14 Products</a> )
Background:	<p>The METTL3-METTL14 heterodimer forms a N6-methyltransferase complex that methylates adenosine residues at the N6 position of some mRNAs and regulates the circadian clock, differentiation of embryonic stem cells and cortical neurogenesis. In the heterodimer formed with METTL3, METTL14 constitutes the RNA-binding scaffold that recognizes the substrate rather than the catalytic core. N6-methyladenosine (m6A, which takes place at the 5'-[AG]GAC-3' consensus sites of some mRNAs, plays a role in mRNA stability and processing. M6A acts as a key regulator of mRNA stability by promoting mRNA destabilization and degradation (By similarity. In embryonic stem cells (ESCs, m6A methylation of mRNAs encoding key naive pluripotency-promoting transcripts results in transcript destabilization (By similarity. M6A regulates spermatogonial differentiation and meiosis and is essential for male fertility and spermatogenesis (By similarity. M6A also regulates cortical neurogenesis: m6A methylation of transcripts related to transcription factors, neural stem cells, the cell cycle and neuronal differentiation during brain development promotes their destabilization and decay, promoting differentiation of radial glial cells (By similarity.,METTL14,hMETTL14,Cell Biology &amp; Developmental Biology,METTL14</p>
Molecular Weight:	52 kDa
Gene ID:	57721
UniProt:	<a href="#">Q9HCE5</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

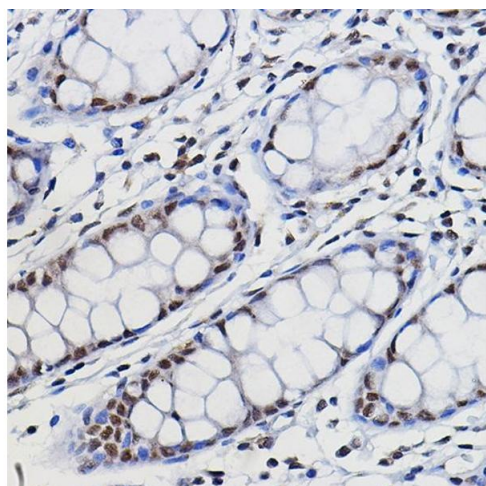
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Publications

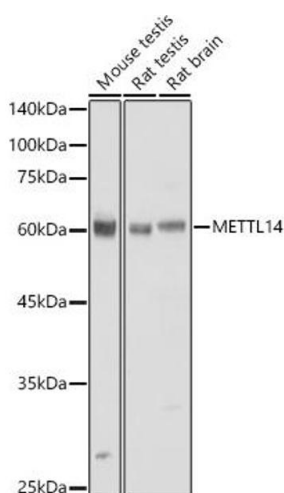
Product cited in: Yang, Lu, Yu, Sun, Guo, Li, Guan: "Quantitative Analysis of Differential Proteome Expression in Epithelial-to-Mesenchymal Transition of Bladder Epithelial Cells Using SILAC Method." in: **Molecules (Basel, Switzerland)**, Vol. 21, Issue 1, pp. 84, (2016) ([PubMed](#)).

## Images



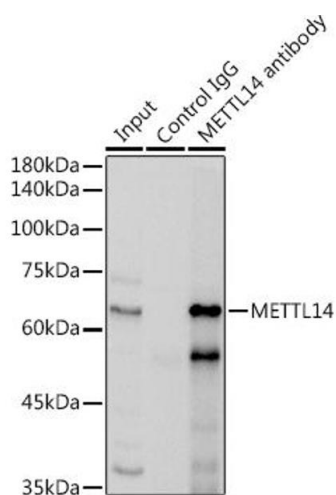
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human colon using METTL14 Rabbit pAb (ABIN6131104, ABIN6143759, ABIN6143760 and ABIN6224625) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using METTL14 antibody (ABIN6131104, ABIN6143759, ABIN6143760 and ABIN6224625) at 1:730 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 0.5s.



### Immunoprecipitation

**Image 3.** Immunoprecipitation analysis of 300 µg extracts of HepG2 cells using 3 µg METTL14 antibody (ABIN6131104, ABIN6143759, ABIN6143760 and ABIN6224625). Western blot was performed from the immunoprecipitate using METTL14 antibody (ABIN6131104, ABIN6143759, ABIN6143760 and ABIN6224625) at a dilution of 1:1000.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6143759.