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Datasheet for ABIN6143773  
**anti-METTL4 antibody (AA 1-190)**

7 Images

Overview

Quantity:	100 µL
Target:	METTL4
Binding Specificity:	AA 1-190
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This METTL4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-190 of human METTL4 (NP_073751.3).
Sequence:	MSVHQLSAG WLLDHLFIN KINYQLHQHH EPCCRKKEFT TSVHFESLQM DSVSSSGVCA AFIASDSSTK PENDDGGNYE MFTRKFVFRP ELFDVTKPYI TPAVHKECQQ SNEKEDLMNG VKKEISISII GKRRKRCVVF NQGELDAMEY HTKIRELILD GSLQLIQEGL KSGFLYPLFE KQDKGSKPIT
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

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Target:	METTL4
Alternative Name:	METTL4 ( <a href="#">METTL4 Products</a> )
Background:	<p>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.,METTL4,HsT661,Epigenetics &amp; Nuclear Signaling,METTL4</p>
Molecular Weight:	54 kDa
Gene ID:	64863
UniProt:	<a href="#">Q8N3J2</a>

## Application Details

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Application Notes:	WB,1:1000 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

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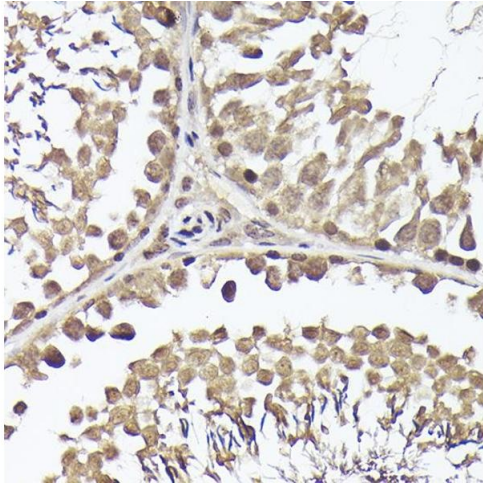
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage: -20 °C

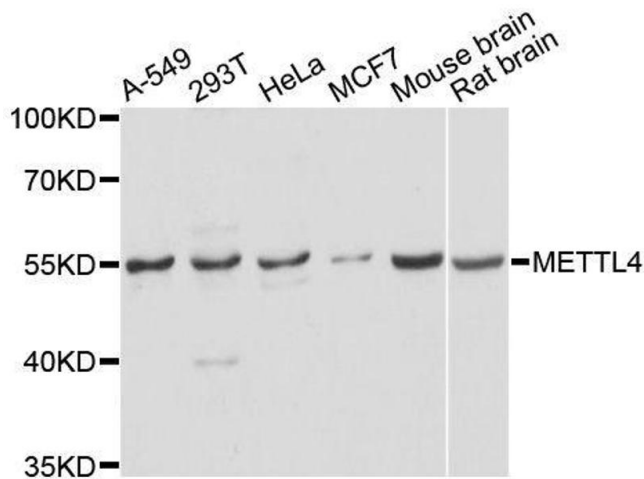
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



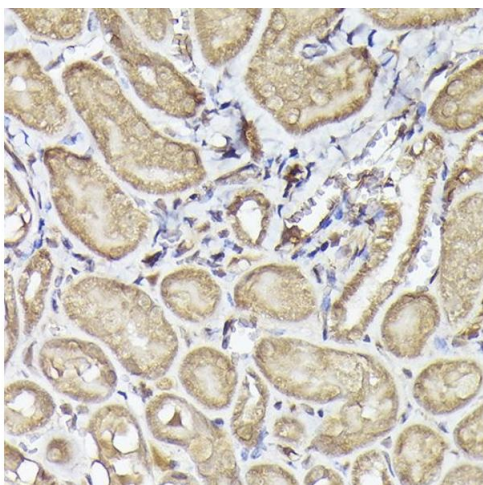
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded rat testis using METTL4 Rabbit pAb (ABIN6133091, ABIN6143773, ABIN6143774 and ABIN6224964) 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 METTL4 antibody.



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded mouse kidney using METTL4 Rabbit pAb (ABIN6133091, ABIN6143773, ABIN6143774 and ABIN6224964) 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.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6143773.