

METTL16 Polyclonal Antibody

Catalog No: #29477



Package Size: #29477-1 50ul #29477-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

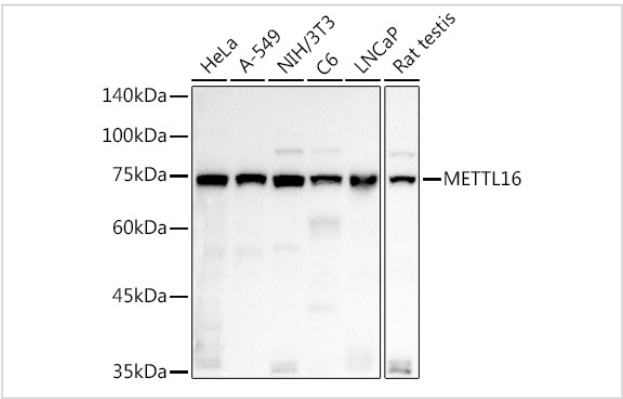
Description

Product Name	METTL16 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant fusion protein of human METTL16 (NP_076991.3).
Other Names	METTL16;METT10D
Accession No.	Uniprot:Q86W50GeneID:79066
Uniprot	Q86W50
GeneID	79066
Calculated MW	80kDa
SDS-PAGE MW	75KDa
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

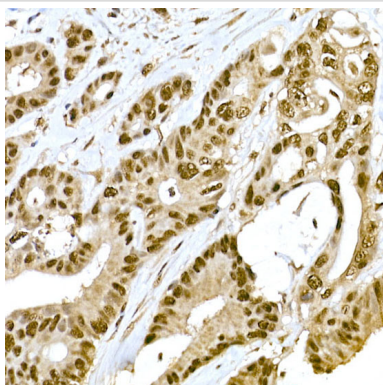
Application Details

WB 1:500 - 1:2000IHC 1:50 - 1:200IF 1:50 - 1:200

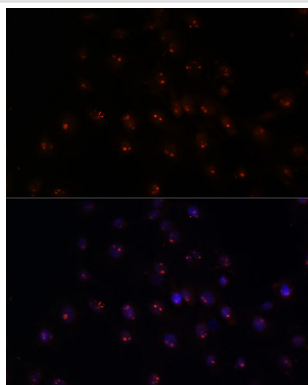
Images



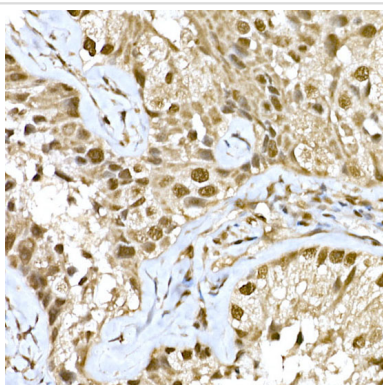
Western blot analysis of extracts of various cell lines, using METTL16 antibody.



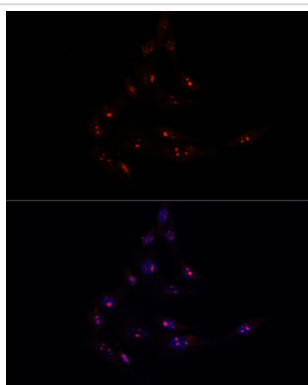
Immunohistochemistry of paraffin-embedded human colon carcinoma using METTL16 Rabbit pAb.



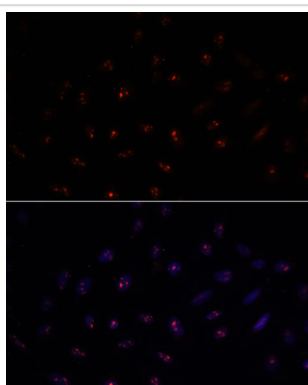
Immunofluorescence analysis of C6 cells using METTL16 antibody.



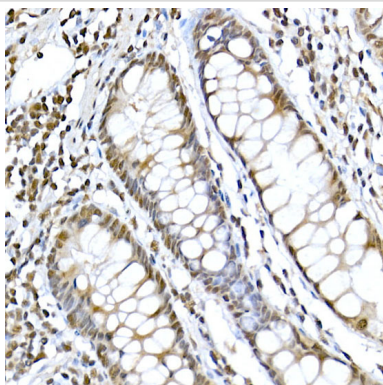
Immunohistochemistry of paraffin-embedded human lung cancer using METTL16 Rabbit pAb.



Immunofluorescence analysis of NIH/3T3 cells using METTL16 antibody.



Immunofluorescence analysis of U-2 OS cells using METTL16 antibody.



Immunohistochemistry of paraffin-embedded human colon using METTL16 Rabbit pAb.

Background

RNA N6-methyltransferase that methylates adenosine residues at the N6 position of a subset of RNAs and is involved in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts. Able to N6-methylate a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs). In contrast to the METTL3-METTL14 heterodimer, only able to methylate a limited number of RNAs: requires both a 5'UACAGAGAA-3' nonamer sequence and a specific RNA structure. Plays a key role in S-adenosyl-L-methionine homeostasis by mediating N6-methylation of MAT2A mRNAs, altering splicing of MAT2A transcripts: in presence of S-adenosyl-L-methionine, binds the 3'-UTR region of MAT2A mRNA and specifically N6-methylates the first hairpin of MAT2A mRNA, preventing recognition of their 3'-splice site by U2AF1/U2AF35, thereby inhibiting splicing and protein production of S-adenosylmethionine synthase. In S-adenosyl-L-methionine-limiting conditions, binds the 3'-UTR region of MAT2A mRNA but stalls due to the lack of a methyl donor, preventing N6-methylation and promoting expression of MAT2A. In addition to mRNAs, also able to mediate N6-methylation of U6 small nuclear RNA (U6 snRNA: specifically N6-methylates adenine in position 43 of U6 snRNAs. Also able to bind various lncRNAs, such as 7SK snRNA (7SK RNA or 7SL RNA. Specifically binds the 3'-end of the MALAT1 long non-coding RNA.

Note: This product is for in vitro research use only