For Research Use Only

METTL3 Monoclonal antibody

Catalog Number:67733-1-Ig Featured Product 24 Publications

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Basic Information

Catalog Number:
67733-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop and 407 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG7110

GenBank Accession Number:
BC001650

GeneID (NCBI):
56339

UNIPROT ID:
Q86U44

Full Name:
methyltransferase like 3

Calculated MW:
64 kDa

Observed MW:
65-70 kDa

Purification Method:
Protein G purification

CloneNo.:
2D8H1

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:500-1:2000
IF-P: 1:200-1:800
IF/ICC: 1:400-1:1600
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

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 : HeLa cells, A549 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells

IHC : human lung cancer tissue, human urothelial carcinoma tissue, human colon cancer tissue, human oesophagus cancer tissue

IF-P : mouse testis tissue,

IF/ICC : MCF-7 cells,

FC (Intra) : HEK-293 cells,

Background Information

METTL3 is a key S-adenosyl-L-methionine-binding subunit, which is component of a complex multicomponent enzyme that catalyzes the methylation of internal adenosine residues in eukaryotic mRNA, forming N6-methyladenosine. It contains 2 putative nuclear localization signals and 2 consensus methylation motifs. The calculated molecular weight of METTL3 is 64 kDa, but modified METTL3 is about 65-70 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanan Wang	36293529	Int J Mol Sci	WB,IHC
Zewei Sun	36368640	Clin Immunol	IP,IF
Yang Wang	36333630	Apoptosis	WB

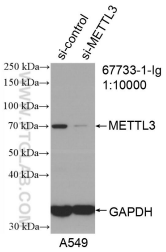
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

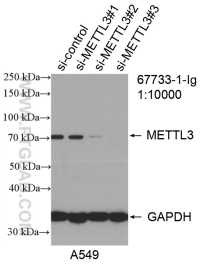
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

Selected Validation Data



WB result of METTL3 antibody (67733-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-METTL3 transfected A549 cells.



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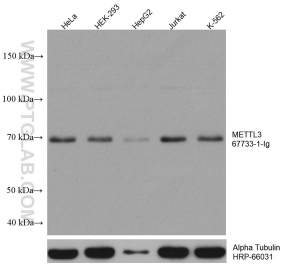
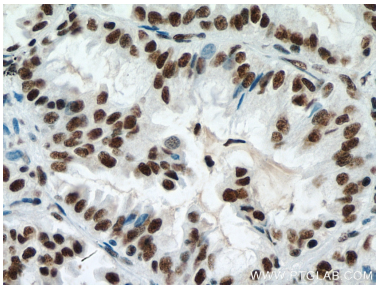
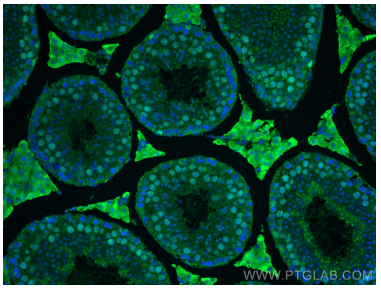


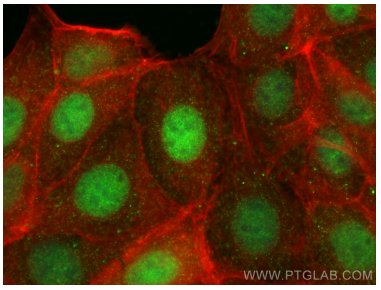
Various lysates were subjected to SDS PAGE followed by western blot with 67733-1-Ig (METTL3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



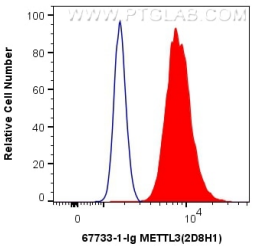
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67733-1-Ig (METTL3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using METTL3 antibody (67733-1-Ig, Clone: 2D8H1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using METTL3 antibody (67733-1-Ig, Clone: 2D8H1) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).



1X10^6 HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human METTL3 (67733-1-Ig, Clone:2D8H1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).