

For Research Use Only

METTL3 Polyclonal antibody

Catalog Number: 15073-1-AP

Featured Product

459 Publications



Basic Information

Catalog Number:

15073-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:750-1:3000

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, RIP

Species Specificity:

human, mouse, rat, monkey

Cited Species:

human, mouse, rat, pig, monkey, chicken, zebrafish, hamster, goat, drosophila

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 : HEK-293 cells, HeLa cells, HT-1080 cells, mouse testis tissue, HepG2 cells, Jurkat cells, Neuro-2a cells, A549 cells, NCCIT cells, COS-7 cells, rat testis tissue

IP : HEK-293 cells,

IHC : human renal cell carcinoma tissue, human lung cancer tissue

IF-P : mouse testis tissue,

IF/ICC : MCF-7 cells,

Background Information

METTL3 is a key S-adenosyl-L-methionine-binding subunit, which is a 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
Zhang Zhang	34594034	Nat Methods	WB
Fanpeng Zhao	34593014	Mol Neurodegener	WB, IHC
Brandon J Gheller	33083017	Cell Death Discov	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

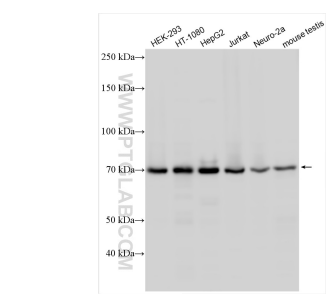
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

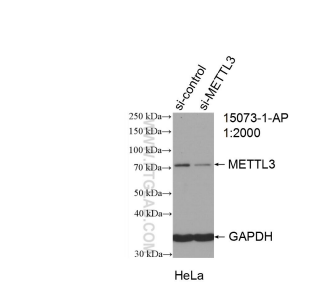
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

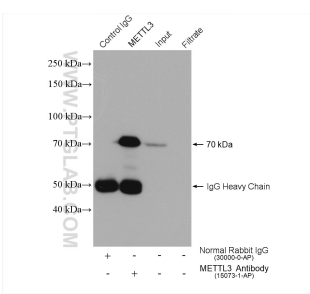
Selected Validation Data



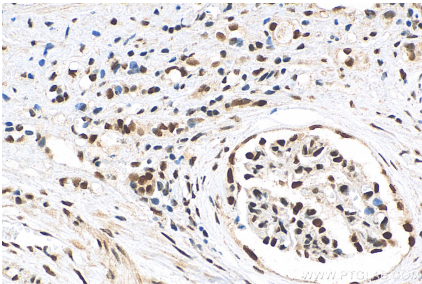
Various lysates were subjected to SDS PAGE followed by western blot with 15073-1-AP (METTL3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



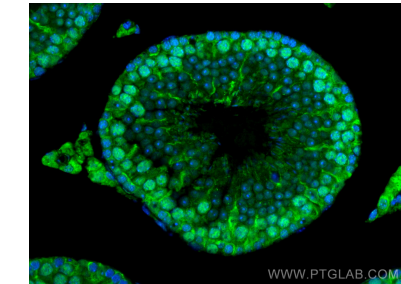
WB result of METTL3 antibody (15073-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-METTL3 transfected HeLa cells.



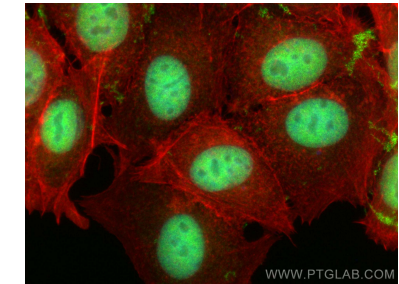
IP result of anti-METTL3 (IP:15073-1-AP, 4ug; Detection:15073-1-AP 1:4000) with HEK-293 cells lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 15073-1-AP (METTL3 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using METTL3 antibody (15073-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using METTL3 antibody (15073-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).