Leader in Biomolecular Solutions for Life Science

# [KD Validated] METTL3 Rabbit mAb

## Catalog No.: A19079

Recombinant | 21 Publications

www.abclonal.com

## Basic Information

**Observed MW**
75 kDa

**Calculated MW**
64 kDa

**Category**
Monoclonal Antibodies

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

**Cross Reactivity**
Human, Mouse, Rat

**Clone No.**
ARC0487

## Background

This gene encodes the 70 kDa subunit of MT-A which is part of N6-adenosine-methyltransferase. This enzyme is involved in the posttranscriptional methylation of internal adenosine residues in eukaryotic mRNAs, forming N6-methyladenosine.

## Recommended Dilutions

**WB** 1:1000 - 1:2000

**IP**
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

**IF/ICC** 1:100 - 1:400

**IHC-P** 1:200 - 1:800

**ELISA**
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**
56339

**Swiss-Prot**
Q86U44

**Immunogen**
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

**Synonyms**
M6A; IME4; Spo8; MT-A70; hMETTL3; METTL3


## Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn


## Product Information

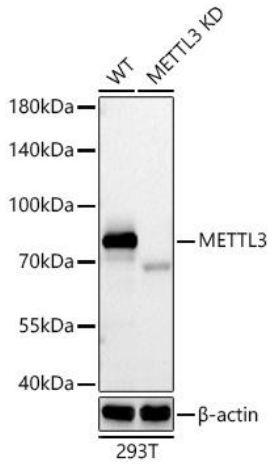
**Source**
Rabbit

**Isotype**
IgG

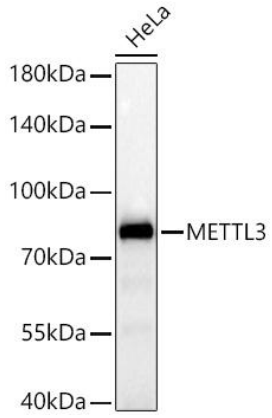
**Purity**
Affinity purification

**Storage**
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

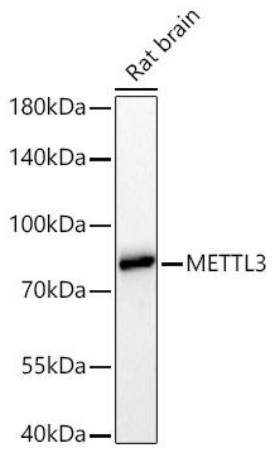
## Validation Data



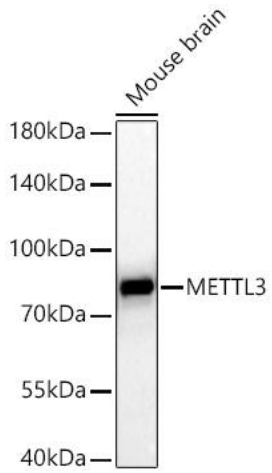

Western blot analysis of lysates from wild type (WT) and METTL3 knockdown (KD) 293T cells using METTL3 Rabbit mAb (A19079) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



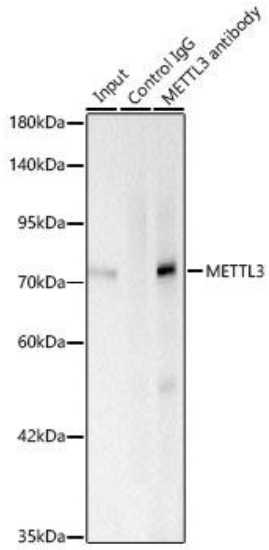

Western blot analysis of lysates from HeLa cells using [KD Validated] METTL3 Rabbit mAb (A19079) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



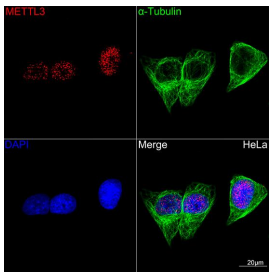

Western blot analysis of lysates from Rat brain using [KD Validated] METTL3 Rabbit mAb (A19079) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



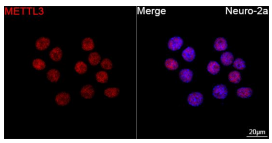

Western blot analysis of lysates from Mouse brain using [KD Validated] METTL3 Rabbit mAb (A19079) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



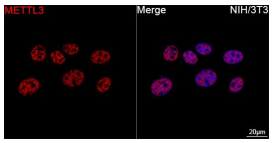

Immunoprecipitation of METTL3 from 200 µg extracts of 293F cells was performed using 0.5 µg of [KD Validated] METTL3 Rabbit mAb (A19079). Rabbit IgG isotype control(AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KD Validated] METTL3 Rabbit mAb (A19079) at a dilution of 1:500.



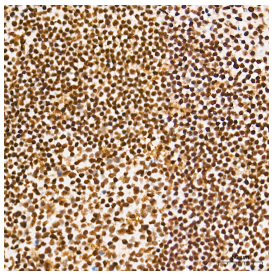

Confocal imaging of HeLa cells using [KD Validated] METTL3 Rabbit mAb (A19079, dilution 1:100)(Red) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



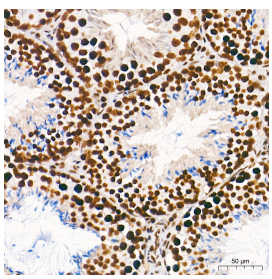

Confocal imaging of Neuro-2a cells using [KD Validated] METTL3 Rabbit mAb (A19079, dilution 1:100) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



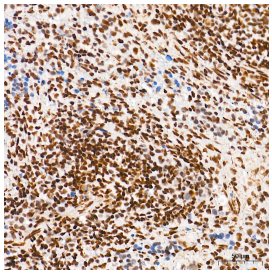

Confocal imaging of NIH/3T3 cells using [KD Validated] METTL3 Rabbit mAb (A19079, dilution 1:100) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KD Validated] METTL3 Rabbit mAb (A19079) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KD Validated] METTL3 Rabbit mAb (A19079) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using [KD Validated] METTL3 Rabbit mAb (A19079) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.