

## Anti-METTL3 Antibody Picoband™

Catalog Number: A01758-1

### About METTL3

N6-adenosine-methyltransferase 70 kDa subunit (METTL3) is an enzyme that in humans is encoded by the METTL3 gene. It is mapped to 14q11.2. 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.

### Overview

Product Name	Anti-METTL3 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-METTL3/METTL3 Antibody Picoband™ catalog # A01758-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q86U44

### Technical Details

Immunogen	E. coli-derived human METTL3 recombinant protein (Position: Q423-D571).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml

Flow Cytometry, 1-3 ug/ $1 \times 10^6$  cells

Direct ELISA, 0.1-0.5ug/ml

## Anti-METTL3 Antibody Picoband™ (A01758-1) Images

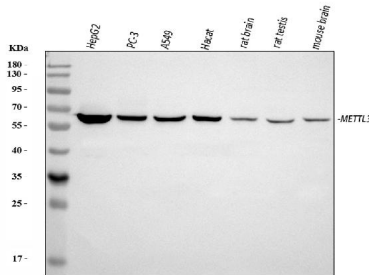


Figure 1. Western blot analysis of METTL3 using anti-METTL3 antibody (A01758-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,  
Lane 2: human PC-3 whole cell lysates,  
Lane 3: human A549 whole cell lysates,  
Lane 4: human Hecar whole cell lysates,  
Lane 5: rat brain tissue lysates,  
Lane 6: rat testis tissue lysates,  
Lane 7: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-METTL3 antigen affinity purified polyclonal antibody (Catalog # A01758-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for METTL3 at approximately 64 kDa. The expected band size for METTL3 is at 64 kDa.

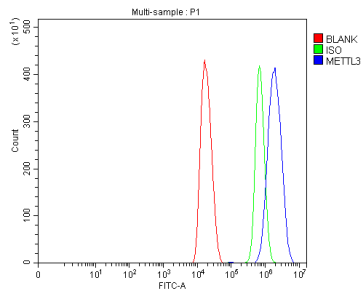


Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-METTL3 antibody (A01758-1).

Overlay histogram showing HEPA1-6 cells stained with A01758-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-METTL3 Antibody (A01758-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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