BOSTER BIOLOGICAL TECHNOLOGY
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Anti-METTL14 Antibody (Monoclonal, 34M56)

Catalog Number: M07389-1

About METTL14

Methyltransferase like 14 is a protein that in humans is encoded by the METTL14 gene. METTL14 is part of a methyltransferase complex required for the common N6-methyladenosine (m6A) base modification that is enriched near stop codons and in long exons of mRNAs.

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Overview

Product Name	Anti-METTL14 Antibody (Monoclonal, 34M56)
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-METTL14 Antibody (Monoclonal, 34M56) catalog # M07389-1. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat, Monkey.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal 34M56
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9HCE5

Technical Details

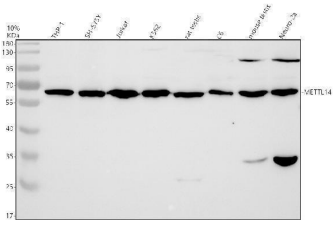
Immunogen	Recombinant protein within human METTL14 aa 3-148.
Form	Liquid
Concentration	500 ug/ml

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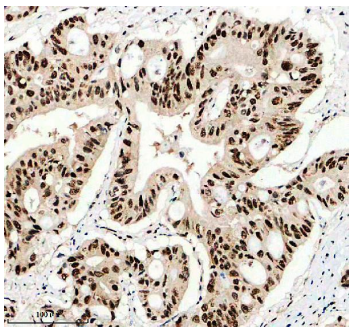
Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-200 Immunocytochemistry/Immunofluorescence, 1:50-200 ImmunoPrecipitation, 1:50 Flow Cytometry (Fixed), 1:50-200

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Anti-METTL14 Antibody (Monoclonal, 34M56) (M07389-1) Images



Western blot analysis of METTL14 using anti-METTL14 antibody (M07389-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse testis tissue lysates, Lane 8: mouse Neuro-2a whole cell 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-METTL14 antigen affinity purified monoclonal antibody (M07389-1) at 1:500 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for METTL14 at approximately 65 kDa. The expected band size for METTL14 is at 52 kDa.



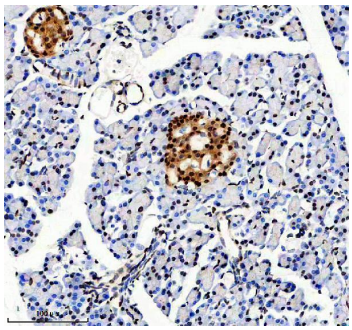
IHC analysis of METTL14 using anti-METTL14 antibody (M07389-1). METTL14 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-METTL14 Antibody (M07389-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of METTL14 using anti-METTL14 antibody (M07389-1). METTL14 was detected in a paraffin-embedded section of human prostate cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-METTL14 Antibody (M07389-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of METTL14 using anti-METTL14 antibody

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(M07389-1). METTL14 was detected in a paraffin-embedded section of rat pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-METTL14 Antibody (M07389-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Anti-METTL14 Antibody (Monoclonal, 34M56)

For Research Use Only. Not for use in diagnostic procedures.