

Product datasheet

Anti-METTL14 antibody ab223090

3 Images

Overview

Product name	Anti-METTL14 antibody
Description	Rabbit polyclonal to METTL14
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Chicken, Cow, Orangutan 
Immunogen	Recombinant fragment corresponding to Human METTL14 aa 24-206. Sequence: GAESADSIGAVLNSKDEQREIAETRETCRASDYDTSAPN AKRKYLDEGETD EDKMEEYKDELEMQQDEENLPYEEEEYKDSSTFLKGT QSLNPHNDYCQHF VDTGHRPQNFIIRDVGLADRFEEYPKLRELIRLKDELIK SNTPPMYLQAD IEAFDIRELTPKFDVILPEPPLEEEYRETGITA Database link: Q9HCE5  Run BLAST with  Run BLAST with
Positive control	WB: SH-SY5Y whole cell lysate. IHC-P: Human gastric cancer and testis tissues.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab223090** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/5000. Detects a band of approximately 53 kDa (predicted molecular weight: 52 kDa).
IHC-P		1/20 - 1/200.

Target

Function

N6-methyltransferase that methylates adenosine residues of some mRNAs and acts as a regulator of the circadian clock and differentiation of embryonic stem cells. N6-methyladenosine (m6A), which takes place at the 5'-[AG]GAC-3' consensus sites of some mRNAs, plays a role in the efficiency of mRNA splicing, processing and mRNA stability (PubMed:24316715, PubMed:24407421, PubMed:25719671). M6A regulates the length of the circadian clock: acts as a early pace-setter in the circadian loop. M6A also acts as a regulator of mRNA stability: in embryonic stem cells (ESCs), m6A methylation of mRNAs encoding key naive pluripotency-promoting transcripts results in transcript destabilization.

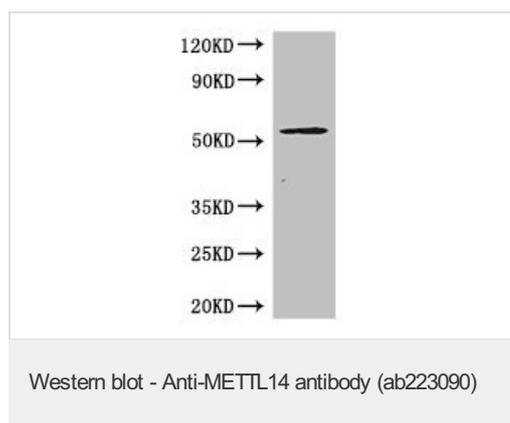
Sequence similarities

Belongs to the MT-A70-like family.

Cellular localization

Nucleus.

Images



Anti-METTL14 antibody (ab223090) at 1/1000 dilution + SH-SY5Y (human neuroblastoma cell line from bone marrow) whole cell lysate

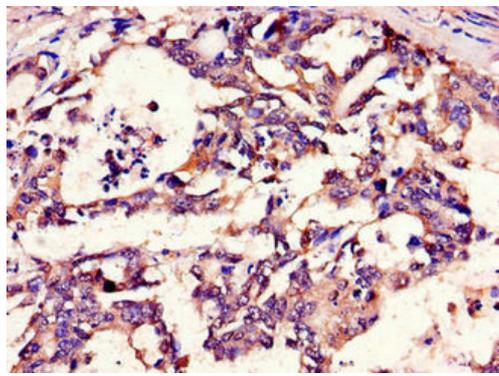
Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 52 kDa

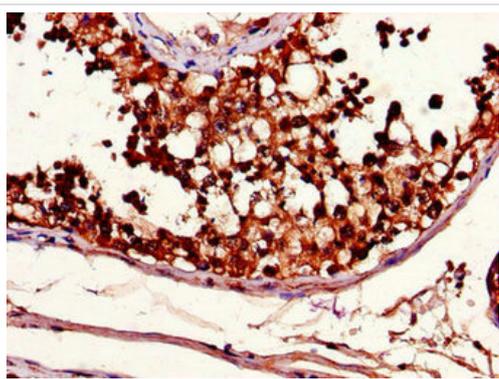
Observed band size: 53 kDa

[why is the actual band size different from the predicted?](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL14 antibody (ab223090)

Paraffin-embedded human gastric cancer tissue stained for METTL14 using ab223090 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL14 antibody (ab223090)

Paraffin-embedded human testis tissue stained for METTL14 using ab223090 at 1/100 dilution in immunohistochemical analysis.

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