


Anti-Metnase antibody ab129455

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Overview

Product name	Anti-Metnase antibody
Description	Rabbit polyclonal to Metnase
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to Human Metnase aa 1-50 (N terminal). (BAD96454.1)
Positive control	HeLa, 293T and Jurkat whole cell lysate (ab7899)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate
Purity	pH 7 to 8 Immunogen affinity purified
Purification notes	ab129455 is purified using an epitope specific to Metnase immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab129455 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. Predicted molecular weight: 77 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

Function

Histone methyltransferase that methylates 'Lys-4' and 'Lys-36' of histone H3, 2 specific tags for epigenetic transcriptional activation. Specifically mediates dimethylation of H3 'Lys-36'. Has sequence-specific DNA-binding activity and recognizes the 19-mer core of the 5'-terminal inverted repeats (TIRs) of the Hsmar1 element. Has DNA nicking activity. Has in vivo end joining activity and may mediate genomic integration of foreign DNA.

Tissue specificity

Widely expressed, with highest expression in placenta and ovary and lowest expression in skeletal muscle.

Sequence similarities

In the N-terminal section; belongs to the histone-lysine methyltransferase family.
In the C-terminal section; belongs to the mariner transposase family.
Contains 1 post-SET domain.
Contains 1 pre-SET domain.
Contains 1 SET domain.

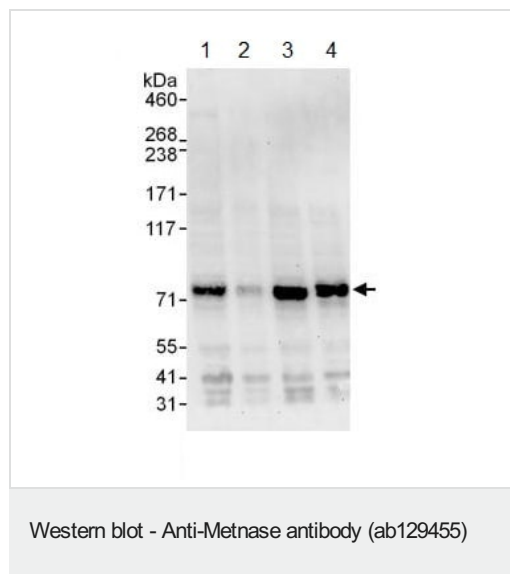
Domain

The mariner transposase Hsmar1 region mediates DNA-binding. It has no transposase activity because the active site contains an Asn in position 610 instead of a Asp residue.

Cellular localization

Nucleus. Chromosome.

Images



All lanes : Anti-Metnase antibody (ab129455) at 0.4 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

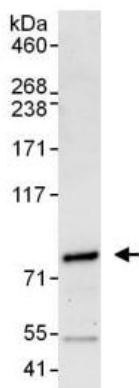
Lane 3 : 293T whole cell lysate at 50 µg

Lane 4 : Jurkat whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 77 kDa

Exposure time: 30 seconds



Immunoprecipitation - Anti-Metnase antibody
(ab129455)

Detection of Metnase by Western Blot of Immunoprecipitates.

ab129455 at 1 µg/ml staining Metnase in HeLa whole cell lysate immunoprecipitated using ab129455 at 6 µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).

Detection: Chemiluminescence with exposure time of 30 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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