abcam

Product datasheet

Recombinant Human Metnase protein ab196433

2 Images

Description

Product name	Recombinant Human Metnase protein
Purity	>= 30 % SDS-PAGE.
Expression system	Mammalian
Accession	Q53H47
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	QLDVACGQENLPVGAWPPGAAPAPFQYTPDHVVGPGAD IDPTQITFPGCI CVKTPCLPGTCSCLRHGENYDDNSCLRDIGSGGKYAEPV FECNVLCRCSD HCRNRVVQKGLQFHFQVFKTHKKGWGLRTLEFIPKGRFV CEYAGEVLGFS EVQRRIHLQTKSDSNYIIAIREHVYNGQVMETFVDPTYIGNIG RFLNHSC EPNLLMIPVRIDSMVPKLALFAAKDIVPEEELSYDYSGRYL NLTVSEDKE RLDHGKLRKPCYCGAKSCTAFLPFDSSLYCPVEKSNISC GNEKEPSMCGS APSVFPSCKRLTLETMKMMLDKKQIRAIFLFEFKMGRKAA ETTRNINNAF GPGTANERTVQWWFKKFCKGDESLEDEERSGRPSEVD NDQLRAIIEADPL TTTREVAEELNVNHSTVVRHLKQIGKVKKLDKWVPHELTE NQKNRRFEVS SSLILRNHNEPFLDRIVTCDEKWILYDNRRRSAQWLDQEE APKHFPKPIL HPKKVMVTIWWSAAGLIHYSFLNPGETITSEKYAQEIDEMN QKLQRLQLA LVNRKGPILLHDNARPHVAQPTLQKLNELGYEVLPHPPYS PDLLPTNYHV FKHLNNFLQGKRFHNQQDAENAFQEFVESQSTDFYATGIN

QLISRWQKCV DCNGSYFD

Predicted molecular weight	76 kDa including tags
Amino acids	27 to 684
Tags	DDDDK tag N-Terminus
Additional sequence information	GenBank accession no.: NM_006515

Specifications

Our **Abpromise guarantee** covers the use of **ab196433** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Liquid
Additional notes	The protein fragment was expressed in FreeStyle 293-F cells. Previously labelled as SETMAR.

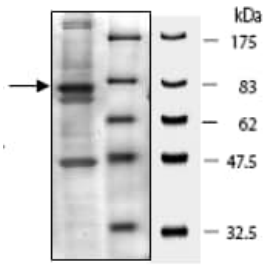
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 0.72% Sodium chloride, 0.02% Potassium chloride, 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine)

General Info

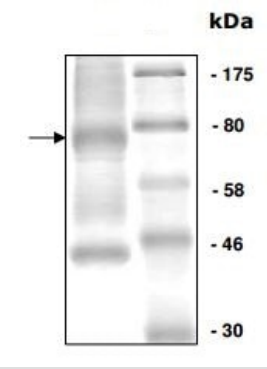
Function	Histone methyltransferase that methylates 'Lys-4' and 'Lys-36' of histone H3, 2 specific tags for epigenetic transcriptional activation. Specifically mediates dimethylation of H3 'Lys-36'. Has sequence-specific DNA-binding activity and recognizes the 19-mer core of the 5'-terminal inverted repeats (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



SDS-PAGE - Recombinant Human Metnase protein (ab196433)

SDS-PAGE analysis of 2 µg of ab196433 on 10% SDS-PAGE gel stained with Coomassie.



SDS-PAGE - Recombinant Human Metnase protein (ab196433)

SDS-PAGE analysis of 3 µg of ab196433 on 10% SDS-PAGE gel stained with Coomassie.

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