

Product Datasheet

Methyltransferase like 3 Antibody - Azide and BSA Free H00056339-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00056339-B01P

Methyltransferase like 3 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.05 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

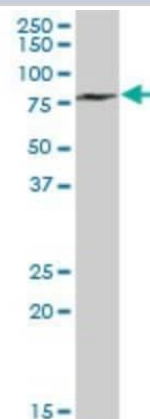
Product Description	
Host	Mouse
Gene ID	56339
Gene Symbol	METTL3
Species	Human, Mouse, Monkey
Specificity/Sensitivity	NM_019852.3
Immunogen	METTL3 (NP_062826.2, 1 a.a. - 580 a.a.) full-length human protein. MSDTWSSIQAHHKQLDSLRLQRRRKQDSGHLDLRNPEAALSPTFRSDSPV PTAPTSGGPKPSTASAVPELATDPELEKLLHHLSDLALTLPDVAISICLAISTPD APATQDGVESLLQKFAAQELIEVKRGLLQDDAHPTLVTYADHSKLSAMMGAVA EKKGPGEVAGTVTGQKRRAEQDSTTVAAFASSLVSGLNSSASEPAKEPAKKS RKHAASDVLDIEISLLNQQSTKEQQSKKVSQEILELLNTTAAKEQSIVEKFRSRG RAQVQEFCDYGTKEECMKASDADRPCRKLHFRRINKHTDESLGDCSFLNTCF HMDTCKYVHYEIDACMDSEAPGSKDHTPSQELALTQSVGGDSSADRLFPPQW ICCDIRYLDVSILGKFAVVMADPPWDIHMELPYGTLTDDMRRLNIPVLQDDGFL FLWVTGRAMELGRECLNLWGYERVDEIIVWKTNQLQRIIRTGRTHWLNHGKE HCLVGKGNPQGFNQGLDCDVIVAEVRSTSHKPDEIYGMIERLSPGTRKIELFG RPHNVQPNWITLGNQLDGIHLLDPDVVARFKQRYPDGIISKPKNL
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 10 ug/ml
Application Notes	Antibody reactive against mammalian transfected lysate.

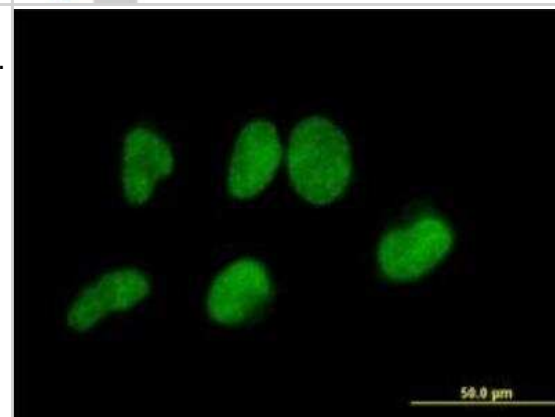


Images

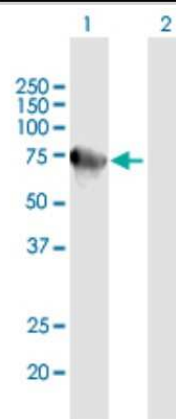
Western Blot: Methyltransferase like 3 Antibody [H00056339-B01P] - Analysis of METTL3 expression in human colon.



Immunocytochemistry/Immunofluorescence: Methyltransferase like 3 Antibody [H00056339-B01P] - purified antibody to METTL3 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot: Methyltransferase like 3 Antibody [H00056339-B01P] - Analysis of METTL3 expression in transfected 293T cell line by METTL3 polyclonal antibody. Lane 1: METTL3 transfected lysate(63.8 KDa). Lane 2: Non-transfected lysate.



Publications

Douglas M. McLaurin, Sara K. Tucker, Michael D. Hebert Coilin mediates m⁶A RNA methylation through phosphorylation of METTL3 *Biology Open* 2023-12-15 [PMID: 38050869]

Abhirami V, Vikas P, Shibla A et al. N⁶-Methyladenosine Landscape of Glioma Stem-Like Cells: METTL3 Is Essential for the Expression of Actively Transcribed Genes and Sustenance of the Oncogenic Signaling. *Genes (Basel)*. 2019-02-13 [PMID: 30781903]

Tsai K, Courtney D, Cullen B et al. Addition of m⁶A to SV40 late mRNAs enhances viral structural gene expression and replication. *PLoS Pathog.* 2018-02-15 [PMID: 29447282]

Leiming D, Yuanhui M, Aidong Z et al. Relaxed initiation pausing of ribosomes drives oncogenic translation. *Sci Adv.* 2021-02-17 [PMID: 33597240]

Perez-Pepe, M;Desotell, AW;Li, H;Li, W;Han, B;Lin, Q;Klein, DE;Liu, Y;Goodarzi, H;Alarcón, CR; 7SK methylation by METTL3 promotes transcriptional activity *Science advances* 2023-05-10 [PMID: 37163588]

Mao Y, Dong L, Liu X et al. m⁶A in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. *Nat Commun.* 2019-11-25 [PMID: 31767846]

Gokhale NS, McIntyre ABR, Mattocks MD et al. Altered m⁶A modification of specific cellular transcripts affects Flaviviridae infection *Mol Cell* 2019-12-08 [PMID: 31810760]

Merkurjev D, Hong WT, Iida K et al. Synaptic N⁶-methyladenosine (m⁶A) epitranscriptome reveals functional partitioning of localized transcripts. *Nat Neurosci* 2018-06-27 [PMID: 29950670]

Chang M, Lv H, Zhang W et al. Region-specific RNA m⁶A methylation represents a new layer of control in the gene regulatory network in the mouse brain. *Open Biol* 2017-09-20 [PMID: 28931651]

Guan BJ, van Hoef V, Jobava R et al. A Unique ISR Program Determines Cellular Responses to Chronic Stress. *Mol Cell* 2017-12-07 [PMID: 29220654]

Kobayashi M, Ohsugi M, Sasako T et al. The RNA Methyltransferase Complex of WTAP, METTL3, and METTL14 Regulates Mitotic Clonal Expansion in Adipogenesis. *Mol Cell Biol* 2018-06-04 [PMID: 29866655]

Yu J, Li Y, Wang T, Zhong X. Modification of N⁶-methyladenosine RNA methylation on heat shock protein expression *PLoS ONE* 2018-06-14 [PMID: 29902206] (WB, Human)

More publications at <http://www.novusbio.com/H00056339-B01P>



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Products Related to H00056339-B01P

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
H00056339-P01-10ug	Recombinant Human Methyltransferase like 3 GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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