

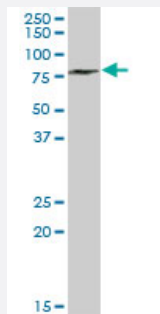
MaxPab®

METTL3 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00056339-B01P

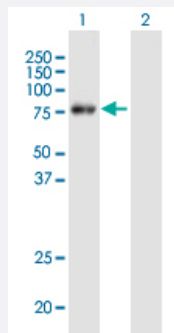
Size 50 ug

Applications



Western Blot (Tissue lysate)

METTL3 MaxPab polyclonal antibody. Western Blot analysis of METTL3 expression in human colon.

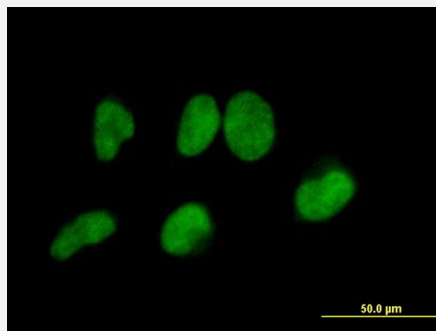


Western Blot (Transfected lysate)

Western Blot analysis of METTL3 expression in transfected 293T cell line ([H00056339-T01](#)) by METTL3 MaxPab polyclonal antibody.

Lane 1: METTL3 transfected lysate(63.8 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to METTL3 on HeLa cell. [antibody concentration 10 ug/ml]

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human METTL3 protein.

Immunogen	METTL3 (NP_062826.2, 1 a.a. ~ 580 a.a) full-length human protein.
Sequence	MSDTWSSIQAHHKKQLDSLRLRERLQRRRKQDSGHLDLRNPEAALSPTFRSDSPVPTAPTSGGPKP STASAVPELATDPELEKKLLHLSLALTLPTDAVSICLAISTPDAPATQDGVESLLQKFAAQELIE VKRGLLQDDAHPTLVITYADHSKLSAMMGAVAEKKGPGEVAGTVTGQKRRAEQDSTTVAAFASS LVSGLNSSASEPAKEPAKKSARKHAASDVLEIESLLNQSTKEQQSKKVSQEILELLNTTTAKEQ SVEKFRSRGRAQVQEFCDYGTKEECMKASDADRPCRKLHFRRIINKHTDESLGDCSFLNTCFHM DTCKYVHYEIDACMDSEAPGSKDHTPSQELALTQSVGGDSSADRLFPPQWICCDIRYLDVSILGK FAVVMADPPWDIHMELPYGTLTDDMRRLNIPVLQDDGFLFLWVTGRAMELGRECLNLWGYERV DEIIVKTNQLQRIIRTGRTGHWLNHGKEHCLVGVKGNPQGFNQGLDCDVVAEVRSTSHKPDEIY GMIERLSPGTRKIELFGRPHNVQPNWITLGNQLDGIHLLDPDVVARFKQRYPDGIISKPNL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (96)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

METTL3 MaxPab polyclonal antibody. Western Blot analysis of METTL3 expression in human colon.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of METTL3 expression in transfected 293T cell line ([H00056339-T01](#)) by METTL3 MaxPab polyclonal antibody.

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[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of purified MaxPab antibody to METTL3 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — METTL3

Entrez GeneID	56339
GeneBank Accession#	NM_019852.3
Protein Accession#	NP_062826.2
Gene Name	METTL3
Gene Alias	IME4, M6A, MGC4336, MT-A70, Spo8
Gene Description	methyltransferase like 3
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the 70 kDa subunit of MT-A which is part of N6-adenosine-methyltransferase. This enzyme is involved in the posttranscriptional methylation of internal adenosine residues in eukaryotic mRNAs, forming N6-methyladenosine. [provided by RefSeq]
Other Designations	N6-adenosine-methyltransferase 70 kDa subunit adoMet-binding subunit of the human mRNA (N6-adenosine)-methyltransferase mRNA m(6)A methyltransferase

Publication Reference

- [Enzymolysis-based RNA pull-down identifies YTHDC2 as an inhibitor of antiviral innate response.](#)

Jun Zhu, Shuo Liu, Jiali Fang, Zenghui Cui, Bingjing Wang, Yuzhou Wang, Lin Liu, Qingqing Wang, Xuetao Cao.
Cell Reports 2023 Oct; 42(10):113192.

Application: IF, WB, Human, RAW264.7 cells

- [7SK methylation by METTL3 promotes transcriptional activity.](#)

Marcelo Perez-Pepe, Anthony W Desotell, Hengyi Li, Wenxue Li, Bing Han, Qishan Lin, Daryl E Klein, Yansheng Liu, Hani Goodarzi, Claudio R Alarcón.
Science Advances 2023 May; 9(19):eade7500.

Application: WB, Human, Hela cells

- [Relaxed initiation pausing of ribosomes drives oncogenic translation.](#)

Leiming Dong, Yuanhui Mao, Aidong Zhou, Xiao-Min Liu, Jun Zhou, Ji Wan, Shu-Bing Qian.
Science Advances 2021 Feb; 7(8):eabd6927.

Application: WB-Ce, WB-Tr, Human, TtH cells

- [m6A in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2.](#)

Mao Y, Dong L, Liu XM, Guo J, Ma H, Shen B, Qian SB.

Nature Communications 2019 Nov; 10(1):5332.

Application: WB-Tr, Mouse, MEFs

- [N⁶-Methyladenosine Landscape of Glioma Stem-Like Cells: METTL3 Is Essential for the Expression of Actively Transcribed Genes and Sustenance of the Oncogenic Signaling.](#)

Abhirami Visvanathan, Vikas Patil, Shibli Abdulla, Jörg D Hoheisel, Kumaravel Somasundaram.

Genes 2019 Feb; 10(2):141.

Application: IP, WB, Human, MGG8 cell

- [Synaptic N6-methyladenosine \(m6A\) epitranscriptome reveals functional partitioning of localized transcripts.](#)

Merkurjev D, Hong WT, Iida K, Oomoto I, Goldie BJ, Yamaguti H, Ohara T, Kawaguchi SY, Hirano T, Martin KC, Pellegrini M, Wang DO.

Nature Neuroscience 2018 Jul; 21(7):1004.

Application: IF, IHC, Mouse, Mouse cortical slices, Hippocampal neurons

- [The RNA Methyltransferase Complex of WTAP, METTL3, and METTL14 Regulates Mitotic Clonal Expansion in Adipogenesis.](#)

Kobayashi M, Ohsugi M, Sasako T, Awazawa M, Umehara T, Iwane A, Kobayashi N, Okazaki Y, Kubota N, Suzuki R, Waki H, Horiuchi K, Hamakubo T, Kodama T, Aoe S, Tobe K, Kadowaki T, Ueki K.

Molecular and Cellular Biology 2018 Jul; 38(16):e00116.

Application: IF, WB-Tr, Mouse, Monkey, COS-FLAG-METTL3, 3T3 cells

- [Addition of m6A to SV40 late mRNAs enhances viral structural gene expression and replication.](#)

Tsai K, Courtney DG, Cullen BR.

PLoS Pathogens 2018 Feb; 14(2):e1006919.

Application: WB-Tr, Monkey, BSC40 cells

- [A Unique ISR Program Determines Cellular Responses to Chronic Stress.](#)

Guan BJ, van Hoef V, Jobava R, Elroy-Stein O, Valasek LS, Cargnello M, Gao XH, Krokowski D, Merrick WC, Kimball SR, Komar AA, Koromilas AE, Wynshaw-Boris A, Topisirovic I, Larsson O, Hatzoglou M.

Molecular Cell 2017 Dec; 68(5):885.

Application: WB-Ce, Mouse, MEF cells

- [Epitranscriptomic Enhancement of Influenza A Virus Gene Expression and Replication.](#)

David G Courtney, Edward M Kennedy, Rebekah E Dumm, Hal P Bogerd, Kevin Tsai, Nicholas S Heaton, Bryan R Cullen.

Cell Host & Microbe 2017 Sep; 22(3):377.

Application: WB-Ce, Human, A549 cells

- [Dynamic m\(6\)A mRNA methylation directs translational control of heat shock response.](#)

Zhou J, Wan J, Gao X, Zhang X, Jaffrey SR, Qian SB.

Nature 2015 Oct; 526(7574):591.

Application: IF, WB, Human, HeLa, MEF cells

- [Mammalian WTAP is a regulatory subunit of the RNA N6-methyladenosine methyltransferase.](#)

Ping XL, Sun BF, Wang L, Xiao W, Yang X, Wang WJ, Adhikari S, Shi Y, Lv Y, Chen YS, Zhao X, Li A, Yang Y, Dahal U, Lou XM, Liu X, Huang J, Yuan WP, Zhu XF, Cheng T, Zhao YL, Wang X, Rendtlew Danielsen JM, Liu F, Yang YG.

Cell Research 2014 Feb; 24(2):177.

Application: IF, Human, HeLa cells