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METTL16 Rabbit pAb

货号: **AYP13846**

产品信息

反应	Human,Mouse,Rat
宿主	Rabbit
克隆性	Polyclonal
预测反应	WB: Homo sapiens
应用	WB IHC IF/ICC IP
推荐浓度	WB: 1:500 - 1:1000 IHC: 1:50 - 1:200 IF/ICC: 1:50 - 1:200 IP: 1:500 - 1:1000
理论分子量	25kDa/63kDa
实测分子量	70KDa
形式	Liquid
保存条件	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.01% thiomersal,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	Jurkat,HepG2,HeLa,NIH/3T3
细胞定位	cytoplasm,nucleus
纯化	Affinity purification

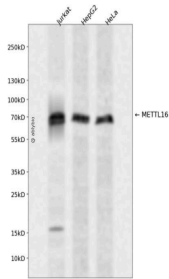
抗原信息

抗原信息	Recombinant fusion protein containing a sequence corresponding to amino acids 263-562 of human METTL16 (NP_076991.3).
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靶点信息

研究背景	RNA N6-methyltransferase that methylates adenosine residues at the N(6 position of a subset of RNAs and is involved in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts. Able to N6-methylate a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs). In contrast to the METTL3-METTL14 heterodimer, only able to methylate a limited number of RNAs: requires both a 5'UACAGAGAA-3' nonamer sequence and a specific RNA structure. Plays a key role in S-adenosyl-L-methionine homeostasis by mediating N6-methylation of MAT2A mRNAs, altering splicing of MAT2A transcripts: in presence of S-adenosyl-L-methionine, binds the 3'-UTR region of MAT2A mRNA and specifically N6-methylates the first hairpin of MAT2A mRNA, preventing recognition of their 3'-splice site by U2AF1/U2AF35, thereby inhibiting splicing and protein production of S-adenosylmethionine synthase. In S-adenosyl-L-methionine-limiting conditions, binds the 3'-UTR region of MAT2A mRNA but stalls due to the lack of a methyl donor, preventing N6-methylation and promoting expression of MAT2A. In addition to mRNAs, also able to mediate N6-methylation of U6 small nuclear RNA (U6 snRNA: specifically N6-methylates adenine in position 43 of U6 snRNAs). Also able to bind various lncRNAs, such as 7SK snRNA (7SK RNA or 7SL RNA. Specifically binds the 3'-end of the MALAT1 long non-coding RNA.
基因ID	79066
基因名	METTL16
Swiss	Q86W50 (https://www.uniprot.org/uniprotkb/Q86W50/entry)
别名	METTL16, METT10D, METTL16 Rabbit pAb, Methyltransferase 10 domain-containing protein, Methyltransferase-like protein 16, U6 small nuclear RNA (adenine-(43)-N(6))-methyltransferase

产品验证



Western blot analysis of METTL16 expressed in Jurkat, HepG2, HeLa using METTL16 Rabbit pAb at 1:1000. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:5000. Lysates/proteins: 30ug per lane. Blocking buffer: 5% non-fat dry milk in TBST. Detection: ECL Enhanced Kit. Exposure time: 120s.

实验步骤

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