

## Anti-METTL1 Antibody (3N140)

### Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3N140
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Anti-METTL1 mouse monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"> <li>-Lane A: 293T Whole Cell Lysate.</li> <li>-Lane B: Jurkat Whole Cell lysate.</li> <li>-Lysates/proteins at 30 µg per lane.</li> <li>-Secondary</li> <li>-Goat Anti-Mouse IgG H&amp;L (Dylight800) at 1/15000 dilution.</li> <li>-Developed using the Odyssey technique.</li> <li>-Performed under reducing conditions.</li> <li>-Predicted band size:31 kDa.</li> <li>-Observed band size:31 kDa.</li> </ul>
	<p>2. METTL1 was immunoprecipitated using:</p> <ul style="list-style-type: none"> <li>-Lane A:0.5 mg HepG2 Whole Cell Lysate.</li> <li>-Lane B:0.5 mg Jurkat Whole Cell Lysate.</li> <li>-2 µL anti-METTL1 mouse monoclonal antibody and 15 µl of 50 % Protein G agarose.</li> <li>-Primary antibody:</li> <li>-Anti-METTL1 mouse monoclonal antibody, at 1:100 dilution.</li> <li>-Secondary antibody:</li> <li>-Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution.</li> <li>-Developed using the odyssey technique.</li> <li>-Performed under reducing conditions.</li> <li>-Predicted band size: 34 kDa.</li> <li>-Observed band size: 34 kDa</li> </ul>
Application:	ELISA,ELISA(Det),IP,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:1000-1:2000; IP: 4-6 µL/mg of lysate; ELISA(Det): 1:1000-1:10000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human METTL1 protein (TMPY-01661)

Antigen Species: Human

Synonyms: TRM8;TRMT8;YDL201w;methyltransferase like 1;C12orf1

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### Research Background

tRNA (guanine-N(7)-)-methyltransferase, also known as Methyltransferase-like protein 1, tRNA (m7G46)-methyltransferase and METTL1, is a nucleus protein that belongs to the methyltransferase superfamily and TrmB family. METTL1 gene has been identified by its sequence similarity to the yeast ORF YDL21w. The human cDNA and the genomic structure of METTL1 have been analyzed. The transcript contains 1292 nucleotides and codes for a protein of 276 amino acids. The METTL1 gene product shows high sequence similarities to putative proteins from mouse, *Drosophila melanogaster*, *Arabidopsis thaliana*, *Caenorhabditis elegans*, and yeast (39.8% identity between all six species). Computer analyses of the deduced protein sequence reveal two highly conserved amino acid motifs, one of which is typical for methyltransferases. Both motifs are also present in hypothetical proteins from eubacteria. Disruption of the homologous yeast ORF YDL21w shows that the gene is at least not essential for vegetative growth in *Saccharomyces cerevisiae*.

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