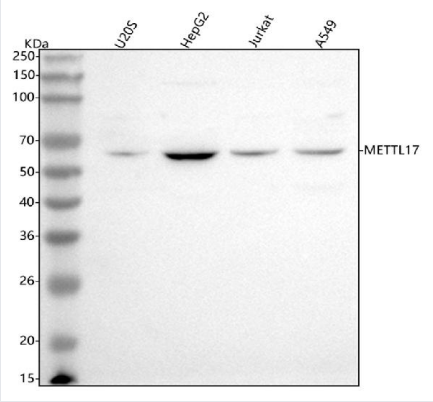
METTL17 Antibody – Rabbit Polyclonal

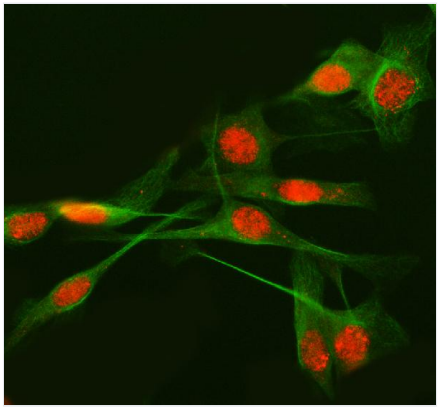
PRODUCT OVERVIEW

Product Name	METTL17, Polyclonal Antibody
Full Product Name	Anti-METTL17 Antibody Picoband
Product Gene Name	anti-METTL17 antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	50,734 Da
3D Structure	ModBase 3D Structure for Q9H7H0
Immunogen	E coli-derived human METTL17 recombinant protein (Position: K129-R429). Human METTL17 shares 86.8% amino acid (aa) sequence identity with mouse METTL17.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-METTL17 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-METTL17 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), ELISA (EIA)

Application Notes for anti-METTL17 antibody	WB: 0.25-0.5ug/ml, Human ICC/IF: 5ug/ml, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-METTL17 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-METTL17 antibody	1. Hartz, P. A. Personal Communication. Baltimore, Md. 11/17/2014.2. Smits, P., Rodenburg, R. J., Smeitink, J. A. M., van den Heuvel, L. P. Sequence variants in four candidate genes (NIPSNAP1, GBAS, CHCHD1 and METT11D1) in patients with combined oxidative phosphorylation system deficiencies. J. Inherit. Metab. Dis. 33: S13-S19, 2010.
Other Notes	Small volumes of anti-METTL17 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for METTL17 purchase	MBS1759389 is an antibody targeting METTL17. Also known as Anti-METTL17 Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-METTL17 antibody
Figure 1. Western blot analysis of METTL17 using anti-METTL17 antibody (MBS1759389).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human U20S whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human Jurkat whole cell lysates,After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-METTL17 antigen affinity purified polyclonal antibody (#MBS1759389) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for METTL17 at approximately 64 kDa. The expected band size for METTL17 is at 51 kDa.



Immunofluorescence (IF) of anti-METTL17 antibody
Figure 2. IF analysis of METTL17 using anti-METTL17 antibody (MBS1759389) and anti-Beta Tubulin antibody (M01857-3).METTL17 was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-METTL17 Antibody (MBS1759389) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for METTL17. It may not necessarily be applicable to this product.

NCBI GI #	71999135
NCBI GeneID	64745
NCBI Accession #	NP_001025162.1
UniProt Primary Accession #	Q9H7H0
UniProt Secondary Accession #	Q9BSH1; Q9BZH2; Q9BZH3
UniProt Related Accession #	Q9H7H0
GenBank Nucleotide #	NM_001029991.1

NCBI Official Full Name	methyltransferase-like protein 17, mitochondrial isoform 1
NCBI Official Synonym Full Names	methyltransferase like 17
NCBI Official Symbol	METTL17
NCBI Official Synonym Symbols	METT11D1
UniProt Protein Name	Methyltransferase-like protein 17, mitochondrial
UniProt Synonym Protein Names	False p73 target gene protein; Methyltransferase 11 domain-containing protein 1; Protein RSM22 homolog, mitochondrial
Protein Family	Methyltransferase-like protein
UniProt Gene Name	METTL17
UniProt Synonym Gene Names	METT11D1
UniProt Entry Name	MET17_HUMAN
NCBI Protein Information	methyltransferase-like protein 17, mitochondrial; false p73 target gene protein; protein RSM22 homolog, mitochondrial; methyltransferase 11 domain containing 1; methyltransferase 11 domain-containing protein 1
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