

Rabbit anti-Human METTL11A/NTMT1 Polyclonal Antibody | anti-METTL11A/NTMT1 antibody

Anti-METTL11A/NTMT1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127623	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

METTL11A/NTMT1; Polyclonal Antibody; Anti-METTL11A/NTMT1 Antibody Picoband; Protein NDRG3; N-myc downstream-regulated gene 3 protein; NDRG3; anti-METTL11A/NTMT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.Highly expressed in brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-METTL11A/NTMT1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human METTL11A/NTMT1 recombinant protein (Position: K21-R223).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	Promotes the growth of epithelial cells. May stimulate the phosphorylation of EGFR and mitogen-activated protein kinases.
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.



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-METTL11A/NTMT1 antibody (AAA127623).Overlay histogram showing HepG2 cells stained with AAA127623 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-METTL11A/NTMT1 Antibody (AAA127623, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 4. IF analysis of METTL11A/NTMT1 using anti-METTL11A/NTMT1 antibody (AAA127623) and anti-Beta Tubulin antibody (M01857-3).METTL11A/NTMT1 was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-METTL11A/NTMT1 Antibody (AAA127623) 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.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of METTL11A/NTMT1 using anti-METTL11A/NTMT1 antibody (AAA127623).METTL11A/NTMT1 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-METTL11A/NTMT1 Antibody (AAA127623) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of METTL11A/NTMT1 using anti-METTL11A/NTMT1 antibody (AAA127623).METTL11A/NTMT1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-METTL11A/NTMT1 Antibody (AAA127623) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of METTL11A/NTMT1 using anti-METTL11A/NTMT1 antibody (AAA127623).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 293T whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human A549 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-METTL11A/NTMT1 antigen affinity purified polyclonal antibody (#AAA127623) 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 with Tanon 5200 system. A specific band was detected for METTL11A/NTMT1 at approximately 25 kDa. The expected band size for METTL11A/NTMT1 is at 25 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-METTL11A/NTMT1 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 Categories/Family for anti-METTL11A/NTMT1 antibody	Primary Antibodies; Cancer; Cell Biology; Cell Cycle; Cell Differentiation; Tumor Biomarkers
References	1. Gross, M. B. Personal Communication. Baltimore, Md. 7/17/2014.2. Schaner Tooley, C. E., Petkowski, J. J., Muratore-Schroeder, T. L., Balsbaugh, J. L., Shabanowitz, J., Sabat, M., Minor, W., Hunt, D. F., Macara, I. G. NRMT is an alpha-N-methyltransferase that methylates RCC1 and retinoblastoma protein. Nature 466: 1125-1128, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	557948057
NCBI GeneID	28989
NCBI Accession #	NP_001273725.1
NCBI GenBank Nucleotide #	NM_001286796.1
UniProt Accession #	Q9BV86; Q5SZB9; Q9UI28; A8K4J2; A8K8G7
Molecular Weight	15,896 Da
NCBI Official Full Name	N-terminal Xaa-Pro-Lys N-methyltransferase 1 isoform a
NCBI Official Synonym Full Names	N-terminal Xaa-Pro-Lys N-methyltransferase 1
NCBI Official Symbol	NTMT1
NCBI Official Synonym Symbols	NRMT; NTM1A; AD-003; HOMT1A; C9orf32; METTL11A
NCBI Protein Information	N-terminal Xaa-Pro-Lys N-methyltransferase 1
UniProt Protein Name	N-terminal Xaa-Pro-Lys N-methyltransferase 1
UniProt Gene Name	NTMT1
UniProt Synonym Gene Names	C9orf32; METTL11A; NRMT; NRMT1; NTM1A
UniProt Entry Name	NTM1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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