

Rabbit anti-Human MUC3A/B Polyclonal Antibody | anti-MUC3A/B antibody

Anti-MUC3A/B Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127515	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

MUC3A/B; Polyclonal Antibody; Anti-MUC3A/B Antibody Picoband; SET domain bifurcated histone lysine methyltransferase 2; Histone-lysine N-methyltransferase SETDB2; Chronic lymphocytic leukemia deletion region gene 8 protein; Lysine N-methyltransferase 1F; SET domain bifurcated 2; SETDB2; C13orf4; CLLD8; KMT1F; anti-MUC3A/B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in reproductive organs, such as testis, ovary and prostate.
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-MUC3A/B antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human MUC3A/B recombinant protein (Position: Q31-R3225).
Subcellular Localization	Nucleus. Chromosome.
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	Histone methyltransferase involved in left-right axis specification in early development and mitosis. Specifically trimethylates 'Lys-9' of histone H3 (H3K9me3). H3K9me3 is a specific tag for epigenetic transcriptional repression that recruits HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Contributes to H3K9me3 in both the interspersed repetitive elements and centromere-associated repeats. Plays a role in chromosome condensation and segregation during mitosis.
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.

IMAGES



IF (Immunofluorescence)

Figure 2. IF analysis of MUC3A/B using anti-MUC3A/B antibody (AAA127515).MUC3A/B was detected in an immunocytochemical section of U2OS cells. 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-MUC3A/B Antibody (AAA127515) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MUC3A/B using anti-MUC3A/B antibody (AAA127515).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 SW620 whole cell lysates,Lane 2: human U20S 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-MUC3A/B antigen affinity purified polyclonal antibody (#AAA127515) 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 MUC3A/B at approximately 345 kDa. The expected band size for MUC3A/B is at 345 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MUC3A/B 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-MUC3A/B antibody	Primary Antibodies ; Immune System Diseases ; Immunology ; Protein Trafficking ; Signal Transduction ; Signaling Pathway
References	1. Fox, M., Lahbib, F., Pratt, W., Attwood, J., Gum, J., Kim, Y., Swallow, D. M. Regional localisation of MUC3 to chromosome 7q22. (Abstract) Cytogenet. Cell Genet. 58: 1920-1921, 1991.2. Pan, Q., Tian, Y., Li, X., Ye, J., Liu, Y., Song, L., Yang, Y., Zhu, R., He, Y., Chen, L., Chen, W., Mao, X., Peng, Z., Wang, R. Enhanced membrane-tethered mucin 3 (MUC3) expression by a tetrameric branched peptide with a conserved TFLK motif inhibits bacteria adherence. J. Biol. Chem. 288: 5407-5416, 2013. 3. Williams, S. J., Munster, D. J., Quin, R. J., Gotley, D. C., McGuckin, M. A. The MUC3 gene encodes a transmembrane mucin and is alternatively spliced. Biochem. Biophys. Res. Commun. 261: 83-89, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	628601833
NCBI GeneID	4584
NCBI Accession #	NP_005951.1
NCBI GenBank Nucleotide #	NM_005960.1
UniProt Accession #	Q02505 ; Q9H195
Molecular Weight	338,839 Da
NCBI Official Full Name	mucin-3A
NCBI Official Synonym Full Names	mucin 3A, cell surface associated
NCBI Official Symbol	MUC3A
NCBI Official Synonym Symbols	MUC3; MUC-3A
NCBI Protein Information	mucin-3A
UniProt Protein Name	Mucin-3A
UniProt Gene Name	MUC3A
UniProt Synonym Gene Names	MUC-3ACurated

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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/muc3a-b-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127515>