

## Rabbit MAT2A Polyclonal Antibody | anti-MAT2A antibody

Anti-MAT2A Antibody Picoband

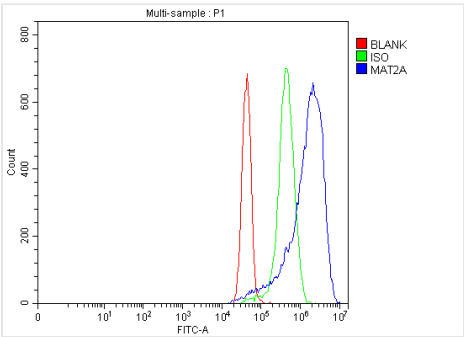
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                |
|-----------|--------|-------------------|-----------------------------------------------------------------------------|
| AAA19521  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

MAT2A; Polyclonal Antibody; Anti-MAT2A Antibody Picoband; anti-MAT2A antibody

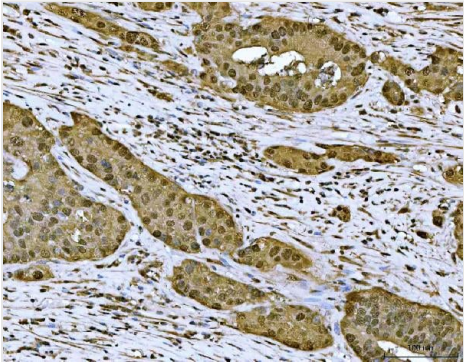
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                             |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                 |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-MAT2A antibody | WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA                                                                                                                                                                                                                                                                                          |
| Application Notes                               | WB: 0.1-0.25 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human<br>FC/FACS: 1-3 ug/1x10 <sup>6</sup> cells, Human<br>Direct ELISA: 0.1-0.5 ug/ml, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P). |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                                |
| Immunogen                                       | E Coli-derived human MAT2A recombinant protein (Position: M1-A229).                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                         | Store 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.                                                                                                                                             |



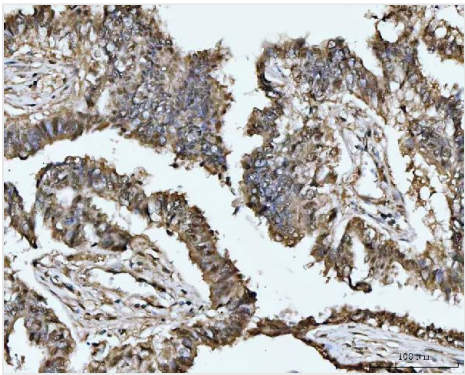
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of MCF-7 cells using anti-MAT2A antibody (AAA19521).Overlay histogram showing MCF-7 cells stained with AAA19521 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAT2A Antibody (AAA19521, 1 ug/1x10<sup>6</sup> 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 (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



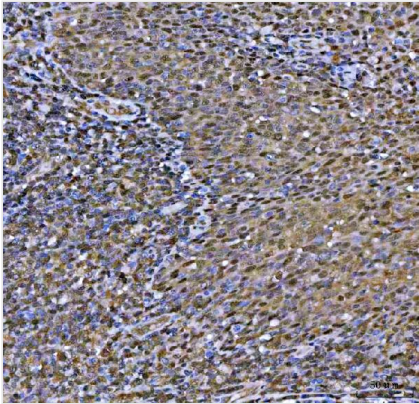
IHC (Immunohistochemistry)

Figure 4. IHC analysis of MAT2A using anti-MAT2A antibody (AAA19521).MAT2A was detected in a paraffin-embedded section of human appendiceal 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 2 ug/ml rabbit anti-MAT2A Antibody (AAA19521) 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.



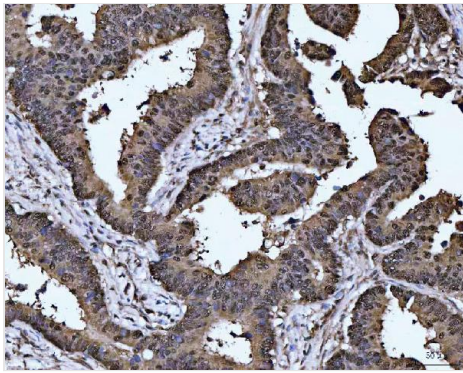
IHC (Immunohistochemistry)

Figure 5. IHC analysis of MAT2A using anti-MAT2A antibody (AAA19521).MAT2A was detected in a paraffin-embedded section of human lung 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 2 ug/ml rabbit anti-MAT2A Antibody (AAA19521) 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.



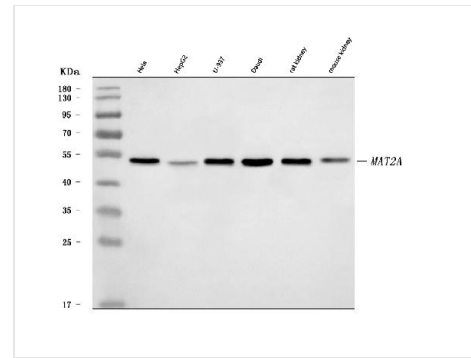
IHC (Immunohistochemistry)

Figure 3. IHC analysis of MAT2A using anti-MAT2A antibody (AAA19521).MAT2A 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 2 ug/ml rabbit anti-MAT2A Antibody (AAA19521) 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 MAT2A using anti-MAT2A antibody (AAA19521). MAT2A was detected in a paraffin-embedded section of human rectal cancer 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 2 ug/ml rabbit anti-MAT2A Antibody (AAA19521) 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 MAT2A using anti-MAT2A antibody (AAA19521). 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 Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human U-937 whole cell lysates, Lane 4: human Daudi whole cell lysates, Lane 5: rat kidney tissue lysates, Lane 6: mouse kidney tissue 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-MAT2A antigen affinity purified polyclonal antibody (#AAA19521) at 0.25 ug/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 MAT2A at approximately 50 kDa. The expected band size for MAT2A is at 44 kDa.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                           |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-MAT2A antibody</b> | The protein encoded by this gene catalyzes the production of S-adenosylmethionine (AdoMet) from methionine and ATP. AdoMet is the key methyl donor in cellular processes. |
| <b>Product Categories/Family for anti-MAT2A antibody</b>   | <a href="#">Primary Antibodies</a> , <a href="#">Rabbit Polyclonal Antibodies</a>                                                                                         |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                       |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">119619920</a>                                                                                                             |
| <b>NCBI GeneID</b>                      | <a href="#">4144</a>                                                                                                                  |
| <b>UniProt Accession #</b>              | <a href="#">P31153</a> ; <a href="#">Q53SP5</a> ; <a href="#">A8K511</a> ; <a href="#">D6W5L1</a>                                     |
| <b>Molecular Weight</b>                 | 43,661 Da                                                                                                                             |
| <b>NCBI Official Full Name</b>          | methionine adenosyltransferase II, alpha, isoform CRA_c                                                                               |
| <b>NCBI Official Synonym Full Names</b> | methionine adenosyltransferase II, alpha                                                                                              |
| <b>NCBI Official Symbol</b>             | MAT2A                                                                                                                                 |
| <b>NCBI Official Synonym Symbols</b>    | MATA2; MATII; SAMS2                                                                                                                   |
| <b>NCBI Protein Information</b>         | S-adenosylmethionine synthase isoform type-2; MAT 2; MAT-II; adoMet synthase 2; adoMet synthetase 2; methionine adenosyltransferase 2 |
| <b>UniProt Protein Name</b>             | S-adenosylmethionine synthase isoform type-2                                                                                          |
| <b>UniProt Gene Name</b>                | <b>MAT2A</b>                                                                                                                          |
| <b>UniProt Synonym Gene Names</b>       | AMS2; MATA2; AdoMet synthase 2; MAT 2; MAT-II                                                                                         |
| <b>UniProt Entry Name</b>               | METK2_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mat2a-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19521>