

## Mouse anti-Human MUC5AC (Mucin 5AC / Gastric Mucin) Monoclonal Antibody | anti-MUC5AC antibody

MUC5AC (Mucin 5AC / Gastric Mucin) Mouse Monoclonal Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                               |
|-----------|-------|------------|----------------------------------------------------------------------------|
| AAA62900  | Mouse | Human      | Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay |

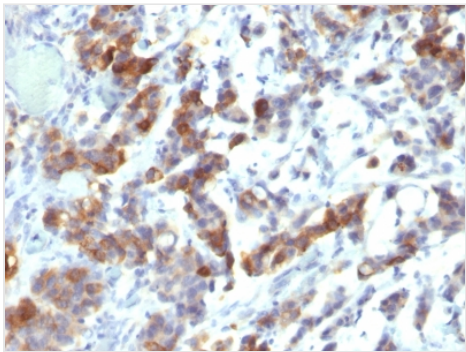
### PRODUCT SYNONYMS

MUC5AC (Mucin 5AC / Gastric Mucin); Monoclonal Antibody; MUC5AC (Mucin 5AC / Gastric Mucin) Mouse Monoclonal Antibody; Apomucin Major Airway Glycoprotein; Mucin 5 subtype AC tracheobronchial; Mucin 5 Subtypes A And C; Mucin 5AC oligomeric mucus/gel forming; Tracheobronchial Mucin (TBM); anti-MUC5AC antibody

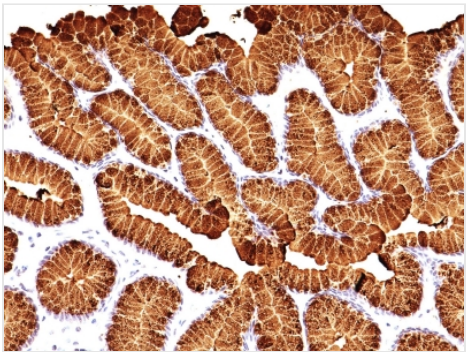
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                          | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone Number                                     | MUC5AC/917 + 45M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity                                      | Mucin 5AC glycoprotein (MUC5AC) is a 641kDa glycoprotein belonging to the superfamily of mucins. Mucins are high molecular weight glycoproteins produced by epithelial cells and can be divided into two families; secretory mucins and membrane bound mucins. MUC5AC is a mucus-forming secreted mucin that is found in normal gastric and tracheo-bronchial mucosa, but absent from normal colon. MUC5AC expression is present in primary ovarian mucinous cancer but usually absent in colorectal adenocarcinoma, thus showing an expression pattern opposite to MUC2. Together with a panel of antibodies, Anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas. |
| Form/Format                                      | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence Length                                  | 5654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-MUC5AC antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cellular Localization                            | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Immunogen                                        | Recombinant human MUC5AC protein (MUC5AC/917); M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient (45M1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hu-Chromosome Location                           | 11p15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Positive Control                                 | Stomach or gastric carcinoma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Preparation and Storage                          | Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC5AC Monoclonal Antibody (MUC5AC/917 + 45M1).



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Stomach stained with MUC5AC Monoclonal Antibody (MUC5AC/917 + 45M1).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Albarracin CT, Jafri J, Montag AG, Hart J, Kuan SF. Differential expression of MUC2 and MUC5AC mucin genes in primary ovarian and metastatic colonic carcinoma. Hum Pathol 2000;31:672-7. Horinouchi M, et al. Expression of different glycoforms of membrane mucin (MUC1) and secretory mucin (MUC2, MUC5AC and MUC6) in pancreatic neoplasms. Acta Histo Chem 2003;36:443-53. |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 748983076                                                                                          |
| NCBI GeneID                      | 4586                                                                                               |
| NCBI Accession #                 | NP_001291288.1                                                                                     |
| NCBI GenBank Nucleotide #        | NM_001304359.1                                                                                     |
| UniProt Accession #              | P98088; O60460; O76065; Q13792; Q14425; Q658Q1; Q7M4S5; Q8N4M9; Q8WWQ3; Q8WWQ4; Q8WWQ5; AOA096LPK4 |
| Molecular Weight                 | 641kDa                                                                                             |
| NCBI Official Full Name          | mucin-5AC                                                                                          |
| NCBI Official Synonym Full Names | mucin 5AC, oligomeric mucus/gel-forming                                                            |
| NCBI Official Symbol             | MUC5AC                                                                                             |
| NCBI Official Synonym Symbols    | TBM; leB; MUC5; mucin                                                                              |
| NCBI Protein Information         | mucin-5AC                                                                                          |
| UniProt Protein Name             | Mucin-5AC                                                                                          |
| UniProt Gene Name                | MUC5AC                                                                                             |
| UniProt Synonym Gene Names       | TBM                                                                                                |
| UniProt Entry Name               | MUC5A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/muc5ac-mucin-5ac-gastric-mucin-antibody-clone-muc5ac-917-45m1-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62900>