

## Mouse anti-Human Gastric Mucin Monoclonal Antibody | anti-MUC5AC antibody

Monoclonal Antibody to Gastric Mucin (Clone: 45M1)

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                           |
|-----------|-------|------------|--------------------------------------------------------|
| AAA78456  | Mouse | Human      | Flow Cytometry, Functional Assay, Immunohistochemistry |

### PRODUCT SYNONYMS

Gastric Mucin; Monoclonal Antibody; Monoclonal Antibody to Gastric Mucin (Clone: 45M1); MUC5AC; MUC5; Gastric mucin; LeB; Lewis B blood group antigen; Major airway glycoprotein; Mucin-5 subtype AC; tracheobronchial; TBM; Tracheobronchial mucin; anti-MUC5AC antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                             |
| Reactivity                                       | Human                                                                                                                                             |
| Clonality                                        | Monoclonal                                                                                                                                        |
| Isotype                                          | IgG1 Kappa                                                                                                                                        |
| Clone Number                                     | 45M1                                                                                                                                              |
| Purity/Purification                              | Purified<br>Protein G Chromatography                                                                                                              |
| Form/Format                                      | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.                                    |
| Sequence Length                                  | 5654                                                                                                                                              |
| Applicable Applications for anti-MUC5AC antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)                                                                                             |
| Antigen                                          | Gastric Mucin                                                                                                                                     |
| Immunogen Information                            | MUC5AC isolated from the fluid of an ovarian mucinous cyst from an O Le(a-b-) patient was used as immunogen to generate the MUC5AC antibody.      |
| Preparation and Storage                          | Store the antibody at 4 degree C; stable for 6 months.<br>For long-term storage; store at -20 degree C.<br>Avoid repeated freeze and thaw cycles. |

### IMAGES



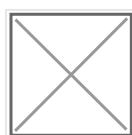
#### IHC (Immunohistochemistry)

Fig: 3 Immunohistochemical analysis of Gastric Mucin in human Lung, Respiratory Epithelium using Gastric Mucin antibody (Clone: 45M1) at 10 ug/ml.



#### IHC (Immunohistochemistry)

Fig: 2 Immunohistochemical analysis of Gastric Mucin in human stomach using Gastric Mucin antibody (Clone: 45M1) at 1: 500 dilution.



#### FCM/FACS (Flow Cytometry)

Fig: 1 Intracellular flow cytometric analysis of Gastric Mucin on A549 using 1 ug/10<sup>6</sup> cells of MUC5AC (Clone: 45M1).

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MUC5AC antibody | MUC5AC (gastric mucin) belongs to the gel-forming mucin family of glycoproteins, the major components of the protective mucus layer on the mucosal surfaces of epithelial tissues. Mucus protects the tissue surface from mechanical damage, stabilizes the luminal microenvironment, and traps pathogens including bacteria and viruses for mucociliary clearance. |
| Product Categories/Family for anti-MUC5AC antibody   | Cancer Marker                                                                                                                                                                                                                                                                                                                                                       |

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; A0A096LPK4 |
| Molecular Weight                 | 585,570 Da                                                                                         |
| 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                                                                                                |

**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/monoclonal/gastric-mucin-antibody-clone-45m1-flow-cytometry-immunohistochemistry-elisa/78456>