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# MUC5AC (Mucin 5AC / Gastric Mucin) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 1-13M1 ]
Catalog # AH11901

## Product Information

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| **Application** | IF, FC, IHC-F |
| **Primary Accession** | P98088 |
| **Other Accession** | 4586, 534332 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Monkey, Chicken, Bovine, Cat |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG1, kappa |
| **Clone Names** | 1-13M1 |
| **Calculated MW** | 585570 |

## Additional Information

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| **Gene ID** | 4586 |
| **Other Names** | Mucin-5AC, MUC-5AC, Gastric mucin, Lewis B blood group antigen, LeB, Major airway glycoprotein, Mucin-5 subtype AC, tracheobronchial, Tracheobronchial mucin, TBM, MUC5AC, MUC5 |
| **Application Note** | IF~~1:50~200 FC~~1:10~50 IHC-F~~N/A |
| **Storage** | Store at 2 to 8°C.Antibody is stable for 24 months. |
| **Precautions** | MUC5AC (Mucin 5AC / Gastric Mucin) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | MUC5AC {ECO:0000303\|PubMed:11535137, ECO:0000312\|HGNC:HGNC:7515} |
| **Function** | Gel-forming glycoprotein of gastric and respiratory tract epithelia that protects the mucosa from infection and chemical damage by binding to inhaled microorganisms and particles that are subsequently removed by the mucociliary system (PubMed:14535999, PubMed:14718370). Interacts with H.pylori in the gastric epithelium, Barrett's esophagus as well as in gastric metaplasia of the duodenum (GMD) (PubMed:14535999). |
| **Cellular Location** | Secreted<br><br>Highly expressed in surface mucosal cells of respiratory tract and stomach |

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| **Tissue Location** | epithelia. Overexpressed in a number of carcinomas. Also expressed in Barrett's esophagus epithelium and in the proximal duodenum. |

## Background

This MAb recognizes the peptide core of gastric mucin M1 (recently identified as Mucin 5AC). Its epitope is located in the peptide core of MUC5AC. Its epitope is destroyed by beta-mercaptoethanol but not by periodate treatment. MAb 1-13M1 pairs with MAb 9-13M1 to measure MUC5AC protein by ELISA. This mucin 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.

## References

Cancer Res.46: 3983-3989 (1986). | Biochem. J. 254: 185-193 (1988). | Int. J. Cancer 47: 304-310 (1991). | J. Immunol. Methods 149: 105-113 (1992