

**MUC5AC (Mucin 5AC / Gastric Mucin) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone SPM297 ]**  
**Catalog # AH10610**

**Specification**

**MUC5AC (Mucin 5AC / Gastric Mucin) Antibody - With BSA and Azide - Product Information**

Application	IHC
Primary Accession	<a href="#">P98088</a>
Other Accession	<a href="#">4586</a> , <a href="#">534332</a>
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Chicken, Cat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	>1,000kDa KDa

**MUC5AC (Mucin 5AC / Gastric Mucin) Antibody - With BSA and Azide - Additional Information**

**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

**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.

**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.

**MUC5AC (Mucin 5AC / Gastric Mucin) Antibody - With BSA and Azide - Protein Information**

**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:<a href="http://www.uniprot.org/citations/14535999" target="\_blank">14535999</a>, PubMed:<a href="http://www.uniprot.org/citations/14718370" target="\_blank">14718370</a>). Interacts

with H.pylori in the gastric epithelium, Barrett's esophagus as well as in gastric metaplasia of the duodenum (GMD) (PubMed:<a href="http://www.uniprot.org/citations/14535999" target="\_blank">14535999</a>).

#### **Cellular Location**

Secreted

#### **Tissue Location**

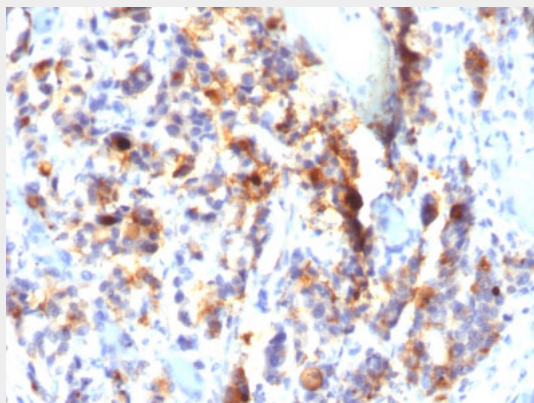
Highly expressed in surface mucosal cells of respiratory tract and stomach epithelia. Overexpressed in a number of carcinomas. Also expressed in Barrett's esophagus epithelium and in the proximal duodenum.

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC5AC Monoclonal Antibody (SPM297).

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

This MAb recognizes the peptide core of gastric mucin M1 (>1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases but not by periodate treatment. Antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon but not with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.

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

Bara J et. al. International Journal of Cancer, 1991, 47(2):304-10. | Bara J et. al. Journal of Immunological Methods, 1992, 149(1):105-13