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

Mouse Monoclonal Antibody [Clone CLH2]
Catalog # AH11909

Specification

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

Application	**,2,3,4,**
Primary Accession	P98088
Other Accession	4586, 534332
Reactivity	**Human**
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

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: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

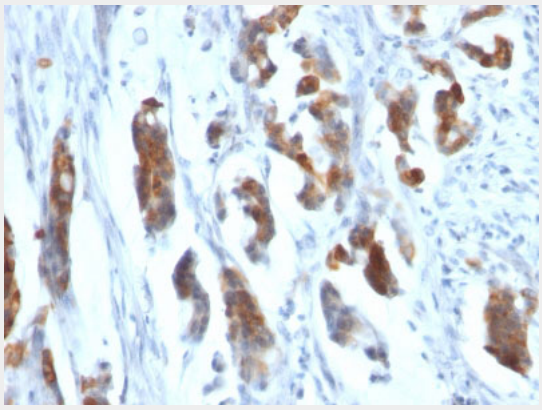
Tissue Location
Highly expressed in surface mucosal cells of respiratory tract and stomach epithelia. Overexpressed in a number of carcinomas. Also expressed in Barrett's esophagus epithelium and in the proximal duodenum.

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 Cytomety
- 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 (CLH2).

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

Mucin 5AC glycoprotein (MUC5AC) is a HMW glycoprotein belonging to the superfamily of mucins. Mucins are 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.

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

Reis CA, David L, Nielsen PA, Clausen H, Mirgorodskaya K, Roepstorff P, et al. Immunohistochemical

study of MUC5AC expression in human gastric carcinomas using a novel monoclonal antibody. Int J Cancer 1997;74:112-21