

Anti-Mucin Gastric Antibody (Monoclonal, 45M1)

Catalog # ABO10449

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P98088
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Mucin Gastric, mucin 5AC, oligomeric mucus/gel-forming (MUC5AC) detection. Tested with WB, IHC-P, ICC in Human;mouse;rabbit;rat. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

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 {ECO:0000303 PubMed:11535137, ECO:0000312 HGNC:HGNC:7515}
Calculated MW	585570
Application Details	Immunohistochemistry(Paraffin-embedded Section), 2-4 μ g/ml, Human, mouse, rabbit, rat, By Heat Immunocytochemistry , 1 μ g/ml, Human, mouse, rabbit, rat, - Western blot, 1-2 μ g/ml, Human, mouse, rabbit, rat
Subcellular Localization	Secreted .
Tissue Specificity	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. .
Source	Eukaryota
Protein Name	Mucin-5AC
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.

Clone Names	45M1
Immunogen	Mucin from human ovarian cyst fluid.
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 CTCK (C-terminal cystine knot-like) domain.

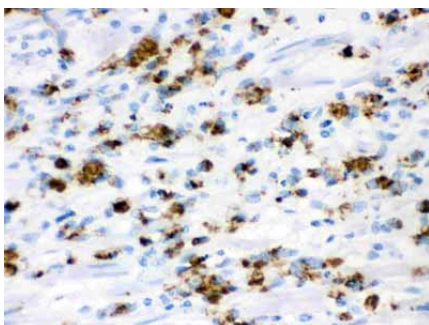
Protein Information

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.

Background

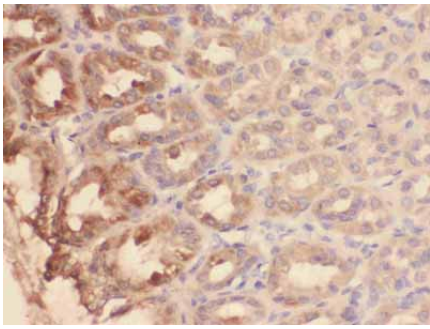
Mucin 5AC (Muc5AC) is a protein that in humans is encoded by the MUC5AC gene. Using real-time RT-PCR, Moehle et al. (2006) found that MUC5AC was highly expressed in adult trachea and stomach. Expression was lower in adult lung and weak in fetal lung, and no expression was detected in other tissues. This gene has been linked to mucus hypersecretion in the pulmonary tracts and associated to chronic obstructive pulmonary disease. Moreover, Muc5ac is identified as a direct and critical mediator of resistance during intestinal nematode infection.

Images



Anti- Mucin Gastric antibody, ABO10449, IHC(P)IHC(P):
Human Gastric Cancer Tissue

Anti- Mucin Gastric antibody, ABO10449, IHC(P)IHC(P):
Rat Gastric Cancer Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.