

Anti-Mucin 5AC Antibody

Catalog # ABO11611

Product Information

Application	WB, IHC-P
Primary Accession	P98088
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Mucin-5AC(MUC5AC) detection. Tested with WB, IHC-P in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/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), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
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	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Mucin 5AC(552-567aa TMQLFMQLAPKLRGQT).
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, 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.

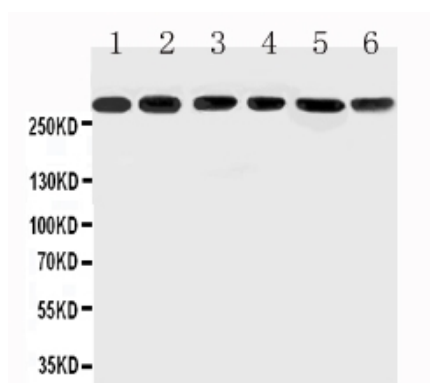
Protein Information

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 is a protein that in humans is encoded by the MUC5AC gene. It is mapped to 11p15.5. MUC5AC is highly expressed in adult trachea and stomach. This gene has been linked to mucus hypersecretion in the pulmonary tracts and associated to chronic obstructive pulmonary disease(COPD). It has been showed that activation of the NF-kappa-B signaling pathway by inflammatory cytokine TNF-alpha upregulated MUC5AC mRNA expression nearly 6-fold. MUC5AC is also a direct and critical mediator of resistance during intestinal nematode infection.

Images



Anti-Mucin 5AC antibody, ABO11611, All Western blotting
 All lanes: Anti-MUC5AC(ABO11611)
 at 0.5ug/ml
 Lane 1: SGC Whole Cell Lysate at 40ug
 Lane 2: HELA Whole Cell Lysate at 40ug
 Lane 3: COLO320 Whole Cell Lysate at 40ug
 Lane 4: SW620 Whole Cell Lysate at 40ug
 Lane 5: MCF-7 Whole Cell Lysate at 40ug
 Lane 6: PANC Whole Cell Lysate at 40ug
 Predicted bind size: 527KD
 Observed bind size: 300KD

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