

Anti-Mucin 5AC Picoband Antibody
Catalog # ABO11977**Specification**

Anti-Mucin 5AC Picoband Antibody - 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.

Anti-Mucin 5AC Picoband Antibody - 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 MW KDa

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. .

Protein Name

Mucin-5AC

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human Mucin 5AC recombinant protein (Position: D4848-H5030).

Purification

Immunogen affinity purified.

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.

Anti-Mucin 5AC Picoband Antibody - 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](http://www.uniprot.org/citations/14535999), PubMed: [14718370](http://www.uniprot.org/citations/14718370)). Interacts with H.pylori in the gastric epithelium, Barrett's esophagus as well as in gastric metaplasia of the duodenum (GMD) (PubMed: [14535999](http://www.uniprot.org/citations/14535999)).

Cellular Location

Secreted

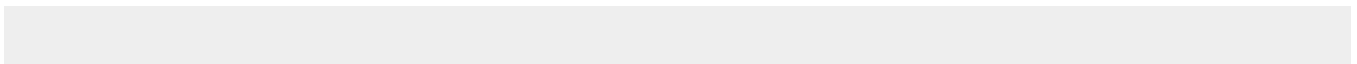
Tissue Location

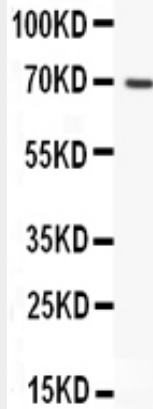
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Anti-Mucin 5AC Picoband Antibody - Protocols

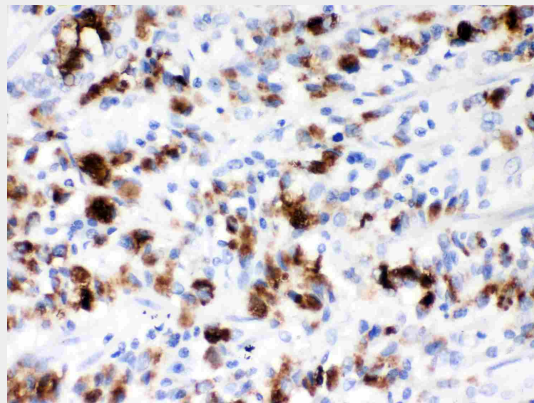
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Mucin 5AC Picoband Antibody - Images



Anti- Mucin 5AC Picoband antibody, ABO11977, Western blotting All lanes: Anti Mucin 5AC (ABO11977) at 0.5ug/ml WB: Recombinant Human Mucin5A Protein 0.5ng Predicted bind size: 68KD Observed bind size: 68KD



Anti- Mucin 5AC Picoband antibody, ABO11977, IHC(P) IHC(P): Human Gastric Cancer Tissue

Anti-Mucin 5AC Picoband Antibody - 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 shown 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.