

**Product Name: Mucin 5AC Rabbit Monoclonal Antibody**  
**Catalog #: AMRe21538**



## Summary

<b>Production Name</b>	Mucin 5AC Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,IF,IP,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG,Kappa
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Purification</b>	Protein A

## Immunogen

<b>Gene Name</b>	MUC5AC
<b>Alternative Names</b>	Mucin-5AC;Gastric mucin;Major airway glycoprotein;Mucin-5 subtype AC, tracheobronchial;Tracheobronchial mucin;MUC5;MUC5AC
<b>Gene ID</b>	0.0
<b>SwissProt ID</b>	P98088.

## Application

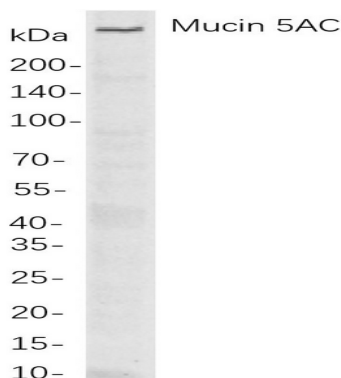
<b>Dilution Ratio</b>	IHC 1:200-1:1000;WB 1:1000-1:5000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200,
<b>Molecular Weight</b>	Calculated MW:586kD;Observed MW:586kD

## Background

Cell localization: Cytoplasm. domain: The cysteine residues in the Cys-rich subdomain repeats are not involved in disulfide bonding. 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 particulates that are subsequently removed by the mucociliary system. PTM: C-, O- and N-glycosylated. O-glycosylated on the Thr-/Ser-rich tandem repeats. C-mannosylation in the Cys-rich subdomains may be required for proper folding of these regions and for export from the endoplasmic reticulum during biosynthesis. PTM: Proteolytic cleavage in the C-terminal is initiated early in the secretory pathway and does not involve a serine protease. The extent of cleavage is increased in the acidic parts of the secretory pathway. Cleavage generates a reactive group which could link the protein to a primary amide. similarity: Contains 1 CTCK (C-terminal cystine knot-like) domain. similarity: Contains 2 VWFC domains. similarity: Contains 4 VWFD domains. subunit: Multimeric. Interacts with H.pylori in the gastric epithelium, Barrett's esophagus as well as in gastric metaplasia of the duodenum (GMD). 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.

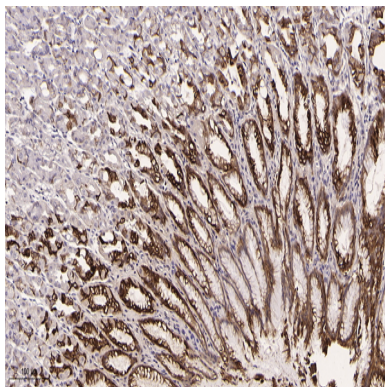
## Research Area

## Image Data

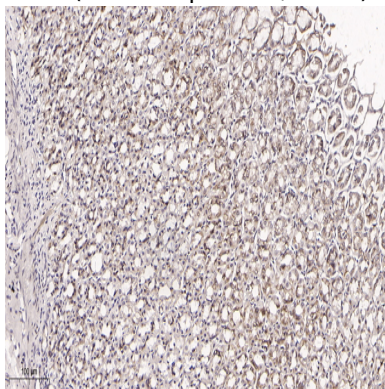


Western blot analysis of lysates from HT-29 cells, using Mucin 5AC Rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG antibody was used to detect the antibody.

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Immunohistochemical analysis of paraffin-embedded human stomach tissue. 1, primary Antibody was diluted at 1:200(4°C,overnight). 2, EDTA pH 9.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue. 1, primary Antibody was diluted at 1:200(4°C,overnight). 2, EDTA pH 9.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

## **Note**

For research use only.