

# Anti-MUC5AC Antibody [A3H3]

## EM1902-02



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	IHC-P
<b>Molecular Wt:</b>	Predicted band size: 586 kDa
<b>Clone number:</b>	A3H3

**Description:** Mucins are a group of high molecular weight glycoproteins consisting of a mucin core protein and O-linked carbohydrates. Mucin 6 carries GlcNAc1-->4Galb-->R structures, indicating that alpha1, 4-N-acetylglucosaminyltransferase is important to the formation of the mucous glycoproteins in vivo. Mucin 5AC is a gel-forming mucin that is secreted from surface mucous cells. Glucocorticoid is required for the expression of Mucin 5AC mRNA and high doses of hydrocortisone suppress its expression. Additionally, asthmatic fluid stimulates Mucin 5AC synthesis several-fold. The pro-inflammatory cytokines IL-6 and TNF-alpha stimulate Mucin 5AC secretion and thus contribute to the upregulation of mucin by chronic inflammation. Expression of Mucin 5AC is retinoic acid (RA)- or retinol- dependent and RA control of mucin genes is mediated by the retinoid acid receptor RAR $\alpha$  and, to a lesser extent, by RAR $\gamma$ . Thyroid hormone binding to thyroid receptors inhibits Mucin 5AC gene expression. Mucin 5AC is also expressed in normal endocervical epithelium, small intestine, gastric cells (Lewis type 1) and gastric metaplasia, and it is a one of the major mucins in the ethmoid mucosa.

**Immunogen:** Recombinant protein within Human MUC5AC aa 600-850.

**Positive control:** Human stomach tissue, A549.

**Subcellular location:** Secreted.

**Database links:** SwissProt: P98088 Human

**Recommended Dilutions:**  
IHC-P 1:1,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein G affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

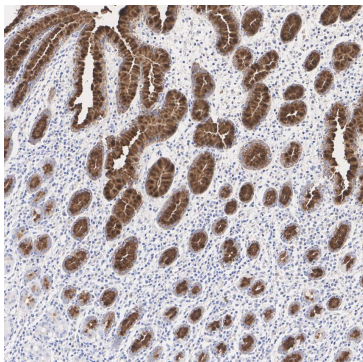
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUABIO  
www.huabio.cn

## Images



**Fig1:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Stomach

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× PBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: EM1902-02, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.

---

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

---

## Background References

1. Van de Bovenkamp J.H. et al. The MUC5AC glycoprotein is the primary receptor for Helicobacter pylori in the human stomach. *Helicobacter* 8:521-532(2003).
2. Perez-Vilar J. et al. C-Mannosylation of MUC5AC and MUC5B Cys subdomains. *Glycobiology* 14:325-337(2004).

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn