

Anti-MUC5AC Antibody [G6-H8]

EM1707-36



Product Type:	Mouse monoclonal IgG2a, primary antibodies
Species reactivity:	Human
Applications:	IHC-P, FC
Molecular Wt:	585 kDa
Clone number:	G6-H8

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 α and, to a lesser extent, by RAR γ . 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: Purified recombinant fragment of human MUC5AC (AA: 5528-5627) expressed in E. Coli.

Subcellular location: Secreted, Cytoplasmic, cell surface.

Database links: SwissProt: P98088 Human

Recommended Dilutions:

IHC-P	1:200-1:1,000
FC	1:200-1:400

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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www.huabio.cn

Images

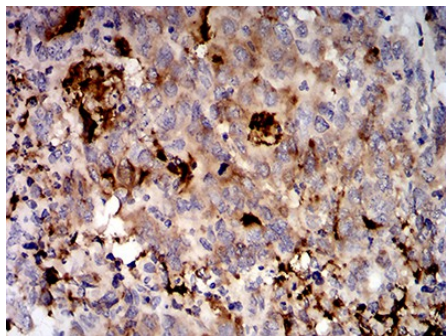


Fig1: Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using MUC5AC mouse mAb with DAB staining.

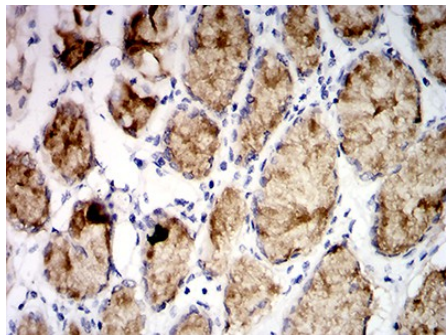


Fig2: Immunohistochemical analysis of paraffin-embedded human stomach tissues using MUC5AC mouse mAb with DAB staining.

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

Background References

1. Tam A et al. Estradiol increases mucus synthesis in bronchial epithelial cells. PLoS One 9:e100633 (2014).
2. Snelgrove RJ et al. Alternaria-derived serine protease activity drives IL-33-mediated asthma exacerbations. J Allergy Clin Immunol 134:583-59
3. e6 (2014).

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