

Anti-MUC5AC (Mucin 5AC/Gastric Mucin) Monoclonal Antibody

Catalog Number: M00612

About MUC5AC

This monoclonal antibody recognizes the peptide core of gastric mucin M1 (1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases but not by periodate treatment. Antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon but not with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.

Overview

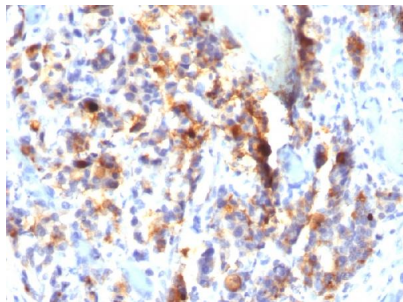
Product Name	Anti-MUC5AC (Mucin 5AC/Gastric Mucin) Monoclonal Antibody
Reactive Species	Chicken, Human, Monkey, Mouse, Pig, Rabbit, Rat, Cat, Hedgehog
Description	Boster Bio Anti-MUC5AC (Mucin 5AC/Gastric Mucin) Monoclonal Antibody (Catalog # M00612). Tested in Flow Cytometry, IF, IHC applications. This antibody reacts with Human, Monkey, Rabbit, Cat, Mouse, Rat, Pig, Hedgehog, Chicken.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC
Clonality	Monoclonal Clone: SPM297
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P98088

Technical Details

Immunogen	M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml

Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-MUC5AC (Mucin 5AC/Gastric Mucin) Monoclonal Antibody (M00612) Images



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC5AC Monoclonal Antibody (SPM297).

4 Publications Citing This Product

1. PubMed ID: 10.1016/j.jep.2019.112425, Systems pharmacology-based study of Tanreqing injection in airway mucus hypersecretion
2. PubMed ID: -, Yan Wang, Tian Liu, Jun-fei Wang et al. FSTL1 aggravates OVA-induced allergic airway inflammation by activating NLRP3 inflammasome, 02 April 2020, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-19657/v1]
3. PubMed ID: 32566662, Wang Q, Wang M, Liu C, Huang L, Gao Y, Yu M, Zhao S, Li X. Ammonia Exposure Induced Cilia Dysfunction of Nasal Mucosa in the Piglets. Biomed Res Int. 2020 May 25;2020:1705387. doi:10.1155/2020/1705387. PMID: 32566662; PMCID: PMC7273420.

Visit [bosterbio.com/anti-muc5ac-mucin-5ac-gastric-mucin-antibody-m00612-boster.html](https://www.bosterbio.com/anti-muc5ac-mucin-5ac-gastric-mucin-antibody-m00612-boster.html) to see all 4 publications.

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