BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Mucin Gastric MUC5AC Antibody (Monoclonal, 45M1)

Catalog Number: MA1061

About MUC5AC

Mucin 5AC (Muc5AC) is a protein that in humans is encoded by the MUC5AC gene. Using real-time RT-PCR, Moehle et al. (2006) found that MUC5AC was highly expressed in adult trachea and stomach. Expression was lower in adult lung and weak in fetal lung, and no expression was detected in other tissues. This gene has been linked to mucus hypersecretion in the pulmonary tracts and associated to chronic obstructive pulmonary disease. Moreover, Muc5ac is identified as a direct and critical mediator of resistance during intestinal nematode infection.

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Overview

Product Name	Anti-Mucin Gastric MUC5AC Antibody (Monoclonal, 45M1)
Reactive Species	Human, Rabbit, Rat
Description	Boster Bio Anti-Mucin Gastric MUC5AC Antibody (Monoclonal, 45M1) catalog # MA1061. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Rabbit, Rat.
Application	IHC, ICC, WB
Clonality	Monoclonal 45M1
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P98088

Technical Details

Immunogen	Mucin from human ovarian cyst fluid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins

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Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 2-4ug/ml, Human, rabbit, rat Immunocytochemistry , 1ug/ml, Human, rabbit, rat, - Western blot, 1-2ug/ml, Human, rabbit, rat

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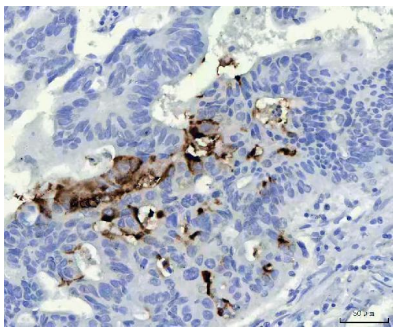
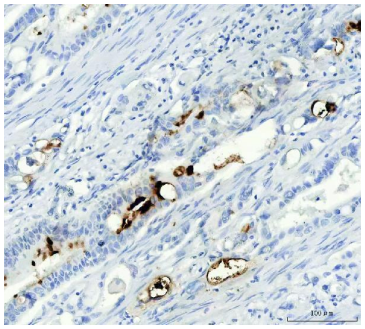
Anti-Mucin Gastric MUC5AC Antibody (Monoclonal, 45M1) (MA1061) Images



IHC analysis of Mucin Gastric using anti-Mucin Gastric antibody (MA1061). Mucin Gastric was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Mucin Gastric Antibody (MA1061) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



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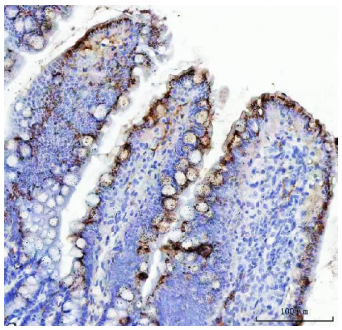

IHC analysis of Mucin Gastric using anti-Mucin Gastric antibody (MA1061). Mucin Gastric was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Mucin Gastric Antibody (MA1061) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

2 Publications Citing This Product

1. PubMed ID: 34160729, Huang J,Liu J,Chang G,Wang Y,Ma N,Roy AC,Shen X.Glutamine Supplementation Attenuates the Inflammation Caused by LPS-Induced Acute Lung Injury in Mice by Regulating the TLR4/MAPK Signaling Pathway.Inflammation.2021 Jun 23.doi:10.1007/s10753-021-01491-2.Epub ahead of print.PMID:34160729.

2. PubMed ID: 23392769, Zhou J, Perelman Jm, Kolosov Vp, Zhou X. Mol Cell Biochem. 2013 May;377(1-2):75-85. Doi: 10.1007/S11010-013-1572-3. Epub 2013 Feb 8. Neutrophil Elastase Induces Muc5Ac Secretion Via Protease-Activated Receptor 2.

Visit bosterbio.com/anti-mucin-gastric-antibody-monoclonal-ma1061-boster.html to see all 2 publications.

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