

Anti-Mucin Gastric Antibody (Monoclonal, 45M1)

Catalog # ABO10449

Specification

Anti-Mucin Gastric Antibody (Monoclonal, 45M1) - Product Information

Application WB, IHC-P, ICC

Primary Accession
Host
Host
Mouse
Isotype
Mouse IgG1

Reactivity Human, Mouse, Rat

Clonality Monoclonal Format Lyophilized

Description

Mouse IgG monoclonal antibody for Mucin Gastric, mucin 5AC, oligomeric mucus/gel-forming (MUC5AC) detection. Tested with WB, IHC-P, ICC in Human;mouse;rabbit;rat. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Mucin Gastric Antibody (Monoclonal, 45M1) - Additional Information

Gene ID 4586

Other Names

Mucin-5AC, MUC-5AC, Gastric mucin, Lewis B blood group antigen, LeB, Major airway glycoprotein, Mucin-5 subtype AC, tracheobronchial, Tracheobronchial mucin, TBM, MUC5AC {ECO:0000303|PubMed:11535137, ECO:0000312|HGNC:HGNC:7515}

Calculated MW 585570 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 2-4 μ g/ml, Human, mouse, rabbit, rat, By Heat
br>
lmmunocytochemistry , 1 μ g/ml, Human, mouse, rabbit, rat, -
br> Western blot, 1-2 μ g/ml, Human, mouse, rabbit, rat
br>

Subcellular Localization

Secreted.

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. .

Protein Name

Mucin-5AC

Contents



Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

Immunogen

Mucin from human ovarian cyst fluid.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 CTCK (C-terminal cystine knot-like) domain.

Anti-Mucin Gastric Antibody (Monoclonal, 45M1) - Protein Information

Name MUC5AC {ECO:0000303|PubMed:11535137, ECO:0000312|HGNC:HGNC:7515}

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 particles that are subsequently removed by the mucociliary system (PubMed:14535999, PubMed:14718370). Interacts with H.pylori in the gastric epithelium, Barrett's esophagus as well as in gastric metaplasia of the duodenum (GMD) (PubMed:14535999).

Cellular Location

Secreted

Tissue Location

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.

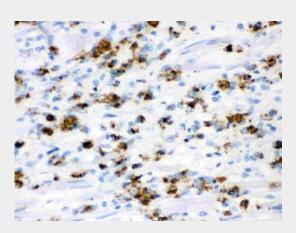
Anti-Mucin Gastric Antibody (Monoclonal, 45M1) - Protocols

Provided below are standard protocols that you may find useful for product applications.

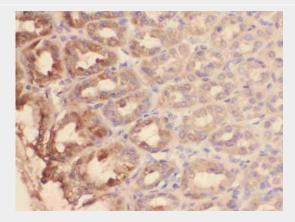
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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



Anti- Mucin Gastric antibody, ABO10449, IHC(P)IHC(P): Human Gastric Cancer Tissue



Anti- Mucin Gastric antibody, ABO10449, IHC(P)IHC(P): Rat Gastric Cancer Tissue

Anti-Mucin Gastric Antibody (Monoclonal, 45M1) - Background

Mucinâ 5AC (Muc5AC) isâ aâ proteinâ thatâ inâ humansâ isâ encodedâ byâ theâ MUC5AC gen e. Usingâ real-timeâ RT-PCR,â Moehleâ etâ al.â (2006)Â foundâ thatâ MUC5ACÂ wasâ highlyâ ex pressedâ inâ adultâ tracheaâ andâ stomach.â Expressionâ wasâ lowerâ inâ adultâ lungâ andâ we akâ inâ fetalâ lung,â andâ noâ expressionâ wasâ detectedâ inâ otherâ tissues.â Thisâ geneâ hasâ beenâ linkedâ toâ mucusâ hypersecretionâ inâ theâ pulmonaryâ tractsâ andâ associatedâ toâ chr onicâ obstructiveâ pulmonaryâ disease.â Moreover,â Muc5acâ isâ identifiedâ asâ aâ directâ andâ criticalâ mediatorâ ofâ resistanceâ duringâ intestinalâ nematodeâ infection.