ARG45543
anti-Mucin 5AC antibody [45M1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [45M1] recognizes Mucin 5AC
Tested Reactivity	Hu, Rat, Rb
Tested Application	ICC/IF, IHC-P, WB
Specificity	MUC5B
Host	Mouse
Clonality	Monoclonal
Clone	45M1
Isotype	IgG1
Target Name	Mucin 5AC
Species	Human
Conjugation	Un-conjugated
Alternate Names	leB; Major airway glycoprotein; Lewis B blood group antigen; Tracheobronchial mucin; mucin; Mucin-5AC; LeB; MUC5; TBM; Gastric mucin; MUC-5AC; Mucin-5 subtype AC, tracheobronchial

Application Instructions

Application table

Application	Dilution
ICC/IF	1 µg/ml
IHC-P	2-4 µg/ml
WB	1-2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

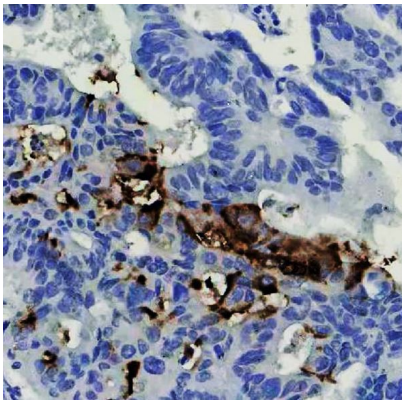
Form	Powder
Purification	Ascites
Buffer	Mouse ascites fluid, 1.2% Sodium acetate, 0.01 mg Sodium azide and 2 mg BSA.
Preservative	0.01 mg Sodium azide
Stabilizer	2 mg BSA
Concentration	0.1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

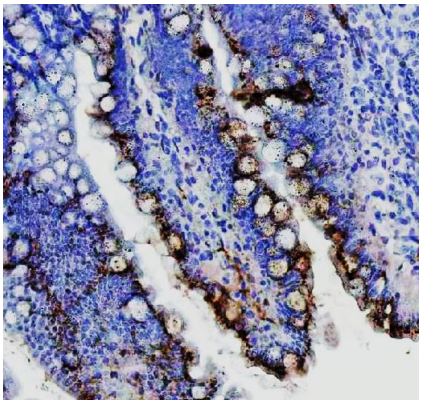
Gene Symbol	MUC5AC
Gene Full Name	mucin 5AC, oligomeric mucus/gel-forming
Background	Predicted to enable extracellular matrix constituent, lubricant activity. Predicted to be an extracellular matrix structural constituent. Predicted to act upstream of or within maintenance of lens transparency. Located in extracellular space and mucus layer. Implicated in dry eye syndrome. Biomarker of several diseases, including Sjogren's syndrome; biliary tract disease (multiple); cystic fibrosis; eye disease (multiple); and pancreatic cancer (multiple). [provided by Alliance of Genome Resources, Feb 2025]
Function	Gel-forming glycoprotein of gastric and respiratoy tract epithelia that protects the mucosa from infection and chemical damage by binding to inhaled microrganisms and particles that are subsequently removed by the mucocilary system. [UniProt]
Calculated Mw	586 kDa
PTM	C-, O- and N-glycosylated. O-glycosylated on the Thr-/Ser-rich tandem repeats. C-mannosylation in the Cys-rich subdomains may be required for proper folding of these regions and for export from the endoplasmic reticulum during biosynthesis. Proteolytic cleavage in the C-terminal is initiated early in the secretory pathway and does not involve a serine protease. The extent of cleavage is increased in the acidic parts of the secretory pathway. Cleavage generates a reactive group which could link the protein to a primary amide. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG45543 anti-Mucin 5AC antibody [45M1] IHC-P image

Immunohistochemistry: Human colon cancer stained with ARG45543 anti-Mucin 5AC antibody [45M1] at 2 µg/ml dilution.



ARG45543 anti-Mucin 5AC antibody [45M1] IHC-P image

Immunohistochemistry: Rat colon stained with ARG45543 anti-Mucin 5AC antibody [45M1] at 2 µg/ml dilution.