

Mouse Anti-MUC5AC [45M1]: MC0864, MC0864RTU7

Intended Use: For Research Use Only

Description: Mucins are high molecular weight glycoproteins with 80% carbohydrate contents and the remaining 20% is constituted by protein core. Gastric mucin M1 antigens are detected/found in columnar mucous cells of surface gastric epithelium and in goblet cells of the fetal and precancerous colon but not in those of normal colon. Evidence from the literature suggests that they are associated with the peptide core of mucins. Resurgence of gastric mucin reactivity during colonic carcinogenesis is suggested to be due to either reexpression of the peptide core of gastric (or fetal colonic) mucins in the adult colon or due to changes in the glycosylation pattern of mucin which expose the hidden M1 antigens.

Specifications

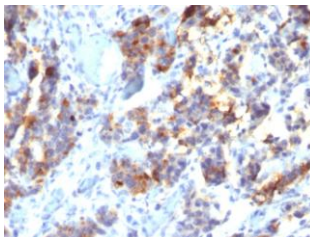
Clone: 45M1
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat, monkey, cat, pig
 Immunogen: M1 mucin preparation from the fluid of an ovarian mucinous cyst of an O Le(a-b) patient
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
MUC5AC Concentrated	MC0864	1 ml
MUC5AC Prediluted	MC0864RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Stomach, gastric carcinoma
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human gastric carcinoma stained with anti-MUC5AC using DAB

References:

1. Platycodi Radix and its active compounds ameliorate against house dust mite-induced allergic airway inflammation and ER stress and ROS by enhancing anti-oxidation. Lee HY, et al. Food Chem Toxicol 123:412-423, 2019.
2. Xenopus: An alternative model system for identifying muco-active agents. Sim HJ, et al. PLoS One 13:e0193310, 2018.
3. A Combination of MUC5AC and CA19-9 Improves the Diagnosis of Pancreatic Cancer: A Multicenter Study. Kaur S, et al. Am J Gastroenterol 112:172-183, 2017.