Anti-Mucin 5AC antibody [1-13M1] ab24070

Overview

Product name
Anti-Mucin 5AC antibody [1-13M1]

Description
Mouse monoclonal [1-13M1] to Mucin 5AC

Host species
Mouse

Tested applications
Suitable for: Flow Cyt, IHC-Fr, IHC-P, ELISA, WB, ICC

Species reactivity
Reacts with: Human

Immunogen
Mucin isolated from an ovarian cyst fluid (pure endocervical type according to the Fenoglio’s classification) (Human).

Epitope
The epitope is destroyed by beta-mercaptoethanol.

Positive control
Human intestine and stomach

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer
Preservative: 0.05% Sodium azide
Constituent: PBS

Purity
Protein G purified

Clonality
Monoclonal

Clone number
1-13M1

Myeloma
Sp2/0

Isotype
IgG1

Applications

Our Abpromise guarantee covers the use of ab24070 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Mucins are high molecular weight glycoproteins with 80% carbohydrates and 20% core protein. Gastric Mucin 5AC antigen is found in columnar mucus cells of surface gastric epithelium and in goblet cells of the fetal and precancerous colon but not in normal colon. Resurgence of gastric mucin during colonic carcinogenesis is suggestive of either re-expression of the peptide core of gastric mucin in the adult colon or due to changes in the glycosylation pattern of mucin, which expose the hidden Mucin 5AC antigen.

Target

Relevance
Mucins are high molecular weight glycoproteins with 80% carbohydrates and 20% core protein. Gastric Mucin 5AC antigen is found in columnar mucus cells of surface gastric epithelium and in goblet cells of the fetal and precancerous colon but not in normal colon. Resurgence of gastric mucin during colonic carcinogenesis is suggestive of either re-expression of the peptide core of gastric mucin in the adult colon or due to changes in the glycosylation pattern of mucin, which expose the hidden Mucin 5AC antigen.

Cellular localization
Secreted; Cytoplasmic and cell surface

Images

Overlay histogram showing A549 cells stained with ab24070 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab24070, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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