Product datasheet

Anti-Mucin 5AC antibody [CLH2] ab77576

Overview

Product name  Anti-Mucin 5AC antibody [CLH2]
Description  Mouse monoclonal [CLH2] to Mucin 5AC
Host species  Mouse
Specificity  ab77576 is specific for the MUC5AC tandem repeat of human mucin. No cross reactivity with other peptides from MUC2, 3, 6 or 7. The antibody recognises glycosylated as well as unglycosylated MUC5AC.
Tested applications Suitable for: ICC/IF, WB, IP, IHC-P, IHC-Fr, Indirect ELISA, Flow Cyt
Species reactivity Reacts with: Human
Immunogen  A synthetic peptide of the MUC5AC tandem repeat (Human).
Positive control  Native mucin extract from normal gastric mucosa and from gastric diffuse carcinoma.
General notes  This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer  pH: 7.60
Preservative: 0.1% Sodium azide
Constituents: 1.45% Sodium chloride, 0.0536% PBS
Purity  Tissue culture supernatant
Purification notes  Purified from TCS.
Clonality  Monoclonal
Clone number  CLH2
Isotype  IgG1

Applications

Run BLAST with EXPASY   Run BLAST with NCBI
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

Application | Abreviews | Notes
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ICC/IF | Use at an assay dependent concentration. |  
WB | Use at an assay dependent concentration. Predicted molecular weight: 252 kDa. |  
IP | Use at an assay dependent concentration. |  
IHC-P | Use at an assay dependent concentration. |  
IHC-Fr | Use at an assay dependent concentration. |  
Indirect ELISA | Use at an assay dependent concentration. |  
Flow Cyt | Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |  

Target

Immunohistochemistry (Frozen sections) - Anti-Mucin 5AC antibody [CLH2] (ab77576)


This image was generated using the ascites version of the product.

Our Abpromise guarantee covers the use of ab77576 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
ab77576 staining of foveolar epithelium of human gastric mucosa by IHC-Fr. Detection with a biotin-conjugated rabbit anti-mouse secondary, followed by avidin-biotin peroxidase complex.

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Overlay histogram showing A549 cells stained with ab77576 (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 followed by the antibody (ab77576, 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. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This image was generated using the ascites version of the product.

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