

## Product datasheet

# Anti-Mucin 5AC antibody [2-11M1] ab24071

[24 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Anti-Mucin 5AC antibody [2-11M1]
<b>Description</b>	Mouse monoclonal [2-11M1] to Mucin 5AC
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Mucin isolated from an ovarian cyst fluid (pure endocervical type according to the Fenoglio's classification) Human.

### General notes

This antibody reacts with peptide core of gastric mucin restricted to the surface gastric epithelium. It characterised the M1-b epitope, completely destroyed by b-mercapto-ethano. The M1-b epitope is found located on a 58 kD and 40 kD peptide after trypsin treatment of native M1 mucin. This M1-b epitope coprecipitates with the M1-f epitope encoded by Mucin 5AC gene. It is probably associated with the gastric mucin encoded by Mucin 5AC gene or with a gastric mucin encoded by another gastric MUC gene which polymerized with the M1/Mucin 5AC gastric mucin.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	pH: 7.3 Preservative: 0.05% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified

<b>Primary antibody notes</b>	This antibody reacts with peptide core of gastric mucin restricted to the surface gastric epithelium. It characterised the M1-b epitope, completely destroyed by b-mercapto-ethano. The M1-b epitope is found located on a 58 kD and 40 kD peptide after trypsin treatment of native M1 mucin. This M1-b epitope coprecipites with the M1-f epitope encoded by Mucin 5AC gene. It is probably associated with the gastric mucin encoded by Mucin 5AC gene or with a gastric mucin encoded by another gastric MUC gene which polymerized with the M1/Mucin 5AC gastric mucin.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2-11M1
<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

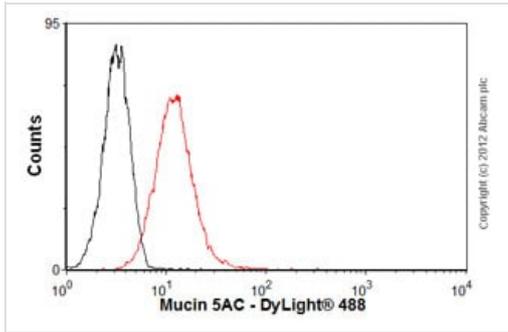
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab24071 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 2µg for 10 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 3 TL (trypsin inhibitory-like) domains. Contains 4 VWFC domains. Contains 4 VWFD domains.
<b>Domain</b>	The cysteine residues in the Cys-rich subdomain repeats are not involved in disulfide bonding.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Secreted.

## Images



Flow Cytometry - Anti-Mucin 5AC antibody [2-11M1] (ab24071)

Overlay histogram showing A549 cells stained with ab24071 (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 (ab24071, 2µg/1x10<sup>6</sup> 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 [CIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

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