

## Product datasheet

# Anti-MUC2 antibody [SPM513], prediluted ab52130

[5 Images](#)

### Overview

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<b>Product name</b>	Anti-MUC2 antibody [SPM513], prediluted
<b>Description</b>	Mouse monoclonal [SPM513] to MUC2, prediluted
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human MUC2.
<b>Positive control</b>	IHC: Human small intestine, colon, colon adenocarcinoma, prostate adenocarcinoma and stomach adenocarcinoma tissue.

### General notes

**This product is FOR RESEARCH USE ONLY. For commercial use, please contact [partnerships@abcam.com](mailto:partnerships@abcam.com).**

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. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: Tris buffered saline, 1% BSA
<b>Purity</b>	Protein A/G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	SPM513
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab52130 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Ready-to-use for 30 min at RT.

## Target

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**Function** Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a role in excluding bacteria from the inner mucus layer.

**Tissue specificity** Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.

**Sequence similarities** Contains 1 CTCK (C-terminal cystine knot-like) domain.  
Contains 1 TIL (trypsin inhibitory-like) domain.  
Contains 2 VWFC domains.  
Contains 4 VWFD domains.

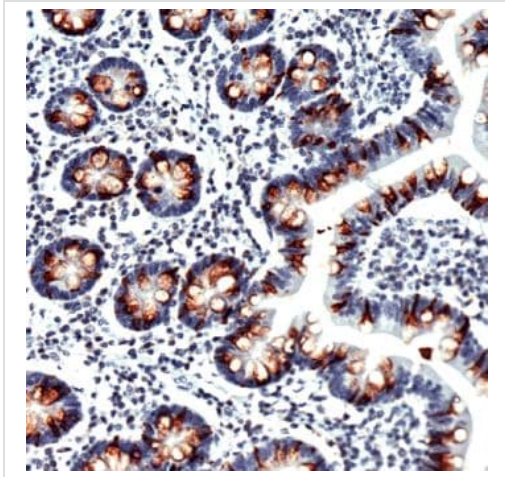
**Post-translational modifications** O-glycosylated.  
May undergo proteolytic cleavage in the outer mucus layer of the colon, contributing to the expanded volume and loose nature of this layer which allows for bacterial colonization in contrast to the inner mucus layer which is dense and devoid of bacteria.  
At low pH of 6 and under, undergoes autocatalytic cleavage in vitro in the N-terminal region of the fourth VWD domain. It is likely that this also occurs in vivo and is triggered by the low pH of the late secretory pathway.

**Cellular localization** Secreted. In the intestine, secreted into the inner and outer mucus layers.

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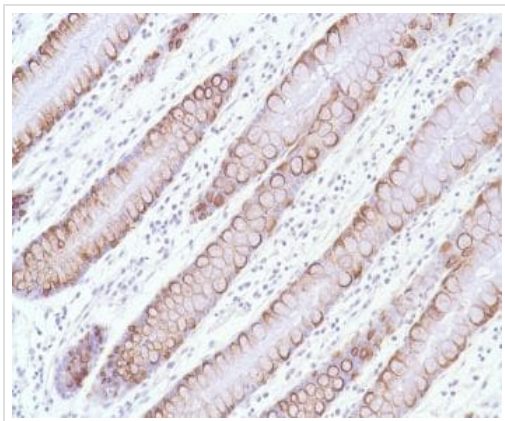
## Images

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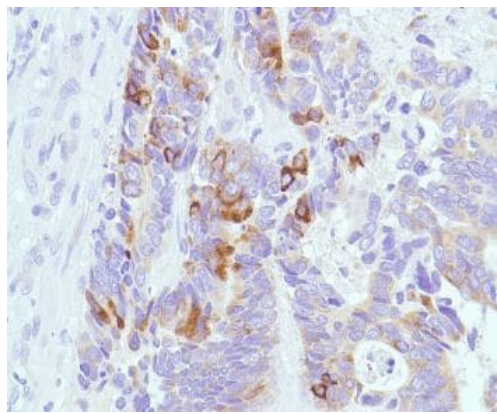
Formalin-fixed, paraffin-embedded human small intestine tissue stained for MUC2 using ab52130 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM513], prediluted (ab52130)



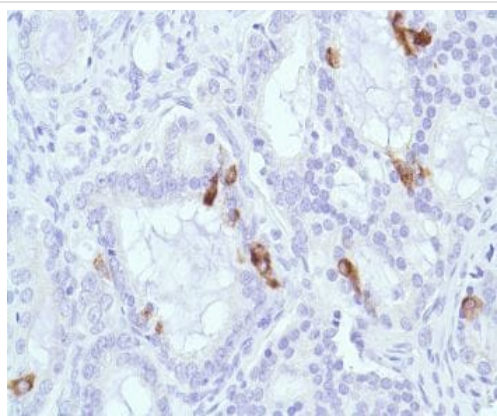
Formalin-fixed, paraffin-embedded human colon tissue stained for MUC2 using ab52130 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM513], prediluted (ab52130)



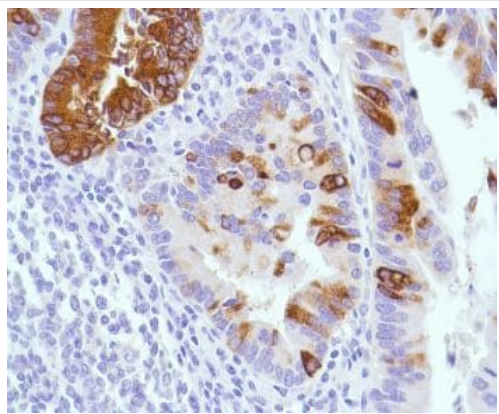
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM513], prediluted (ab52130)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for MUC2 using ab52130 in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM513], prediluted (ab52130)

Formalin-fixed, paraffin-embedded human prostate adenocarcinoma tissue stained for MUC2 using ab52130 in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human stomach adenocarcinoma tissue stained for MUC2 using ab52130 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM513], prediluted (ab52130)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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