


Product datasheet

Anti-MUC2 antibody ab76774

★★★★★ [1 Abreviews](#) [27 References](#) [1 Image](#)

Overview

Product name	Anti-MUC2 antibody
Description	Rabbit polyclonal to MUC2
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Rat  Does not react with: Mouse
Immunogen	Synthetic MUC2 peptide (Human) 23 amino acids long.
Positive control	Human colon carcinoma; LS 174 T colon cancer cell line.
General notes	<p>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.</p> <p>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</p>

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: 7.40 Preservative: 0.05% Sodium azide Constituents: 1% BSA, 1.16% Sodium chloride, 0.0268% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab76774 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		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

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.

Images



ab76774 at 1/100 dilution, staining MUC2 in human colon cancer tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded sections). The DAB staining procedure was used with hematoxylin as counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody (ab76774)

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

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