abcam

Product datasheet

Anti-MUC2 antibody ab76774

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Overview

Product name Anti-MUC2 antibody

Description Rabbit polyclonal to MUC2

Host species Rabbit

Tested applications Suitable for: ℍC-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

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

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

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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

mucosal surfaces. Major constituent of both the filler and outer mucus layers of the colon and ma

play a role in excluding bacteria from the inner mucus layer.

Tissue specificityColon, 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

O-glycosylated.

modifications 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

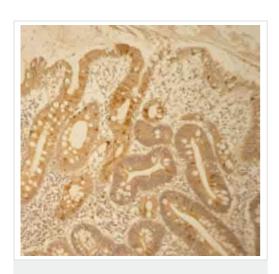
to the inner mucus layer which is dense and devoid of bacteria.

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



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

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.

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

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