

Product datasheet

Anti-MUC12 antibody ab121777

[2 Images](#)

Overview

Product name	Anti-MUC12 antibody
Description	Rabbit polyclonal to MUC12
Host species	Rabbit

Tested Applications & Species

Application	Species
IHC-P	Human

[See all applications and species data](#) ↓

Immunogen	antigen sequence, corresponding to amino acids 5248-5367 of Human MUC12 (Q9UKN1)
Positive control	IHC: Human rectum and colon tissue

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of **ab121777** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Guaranteed

Predicted

Incompatible

Tested applications are guaranteed to work and covered by our Abpromise guarantee.

Predicted to work for this combination of applications and species but not guaranteed.

Does not work for this combination of applications and species.

Application	Species
IHC-P	✔ Human

Application	Abreviews	Notes
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

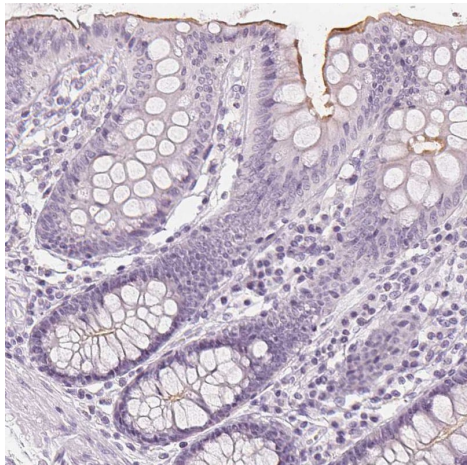
Relevance

Human MUC12 (Mucin 12) is a novel mucin of epithelial mucins, which are large, secreted or cell surface glycoproteins involved in epithelial cell protection, adhesion modulation, and signaling. Using differential display on RNA from paired normal colonic mucosa and primary colorectal tumor, MUC12 is identified as one of the 2 partial cDNAs representing novel mucin genes as well as MUC11. They are downregulated in colorectal tumors. The deduced MUC12 protein contains a predicted transmembrane domain, 2 extracellular cysteine-rich EGF-like domains, a coiled-coil region, and a domain consisting of serine-, threonine-, and proline-rich degenerate tandem repeats of 28 amino acids, a structural feature typical of mucins. Human MUC12 shares high sequence homology with MUC3 and MUC4. Northern blot analysis of 50 different normal tissues detected MUC12 expression in colon, pancreas, prostate, and uterus, with highest expression in colon. The MUC12 transcript is large, estimated to be longer than 12 kb. Expression of MUC12 was downregulated or absent in 6 of 15 (40%) colorectal tumors, as compared with matched normal colonic tissues. MUC12 expression was not detected in any of 6 colorectal cancer cell lines examined.

Cellular localization

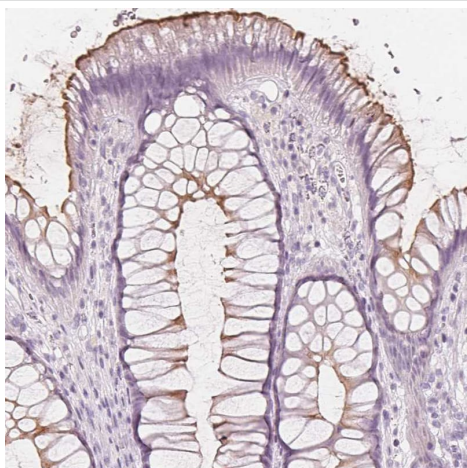
Cell Membrane

Images



ab121777 at a 1/50 dilution staining MUC12 in Human colon tissue (paraffin embedded) by immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC12 antibody (ab121777)



ab121777 at a 1/50 dilution staining MUC12 in Human rectum tissue (paraffin embedded) by immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC12 antibody (ab121777)

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

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- Response to your inquiry within 24 hours
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