

Product datasheet

Anti-MUC2 antibody [SPM512] ab231427

[5 Images](#)

Overview

Product name	Anti-MUC2 antibody [SPM512]
Description	Mouse monoclonal [SPM512] to MUC2
Host species	Mouse
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human MUC2. Database link: Q02817
Positive control	IHC-P: Human small intestine, colon, colon adenocarcinoma, prostate adenocarcinoma and stomach adenocarcinoma tissues.

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SPM512
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab231427** in the following tested applications.

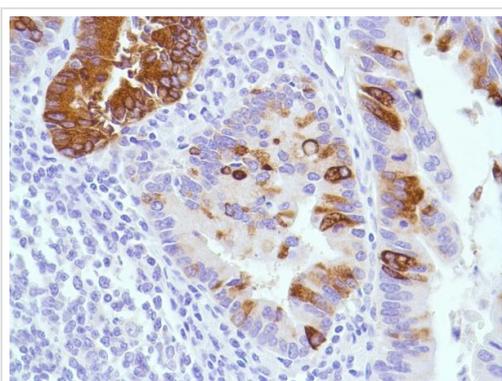
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary antibody incubation for 30 minutes at room temperature.

Target

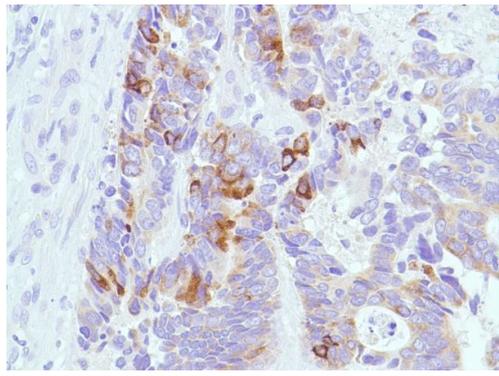
Function	Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a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



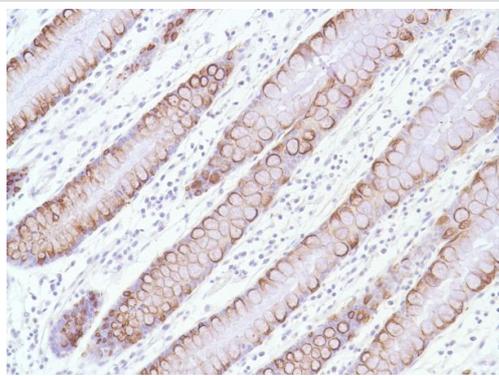
Formalin-fixed, paraffin-embedded human stomach adenocarcinoma tissue stained for MUC2 using ab231427 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM512] (ab231427)



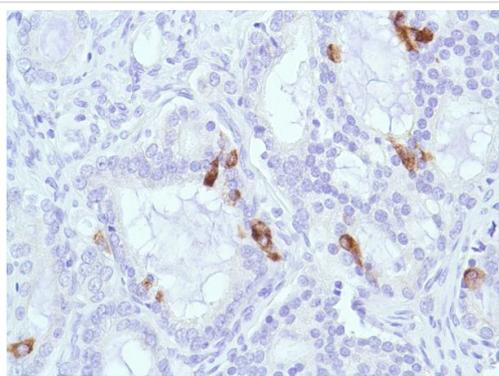
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM512] (ab231427)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for MUC2 using ab231427 at 1/200 dilution in immunohistochemical analysis.



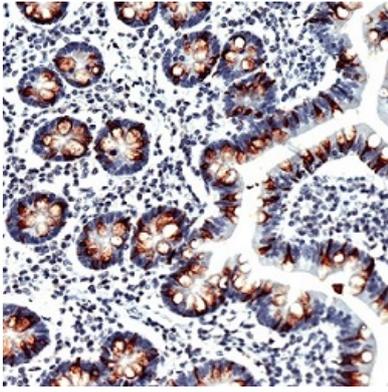
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM512] (ab231427)

Formalin-fixed, paraffin-embedded human colon tissue stained for MUC2 using ab231427 at 1/200 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM512] (ab231427)

Formalin-fixed, paraffin-embedded human prostate adenocarcinoma tissue stained for MUC2 using ab231427 at 1/200 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human small intestine tissue stained for MUC2 using ab231427 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM512] (ab231427)

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