



Product datasheet

Anti-MUC2 antibody [SPM513] - BSA and Azide free
ab212634

1 Image

Overview

Product name	Anti-MUC2 antibody [SPM513] - BSA and Azide free
Description	Mouse monoclonal [SPM513] to MUC2 - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: IHC-P, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human MUC2 aa 1896-1922 conjugated to keyhole limpet haemocyanin. Sequence: KYPTTTPISTTTTTMTPTPTGTQTPTTT Database link: Q02817  Run BLAST with  Run BLAST with
Epitope	The epitope has been defined as AGTQTP (GlyThrGlnThrPro).
Positive control	Human colon carcinoma tissue;LS174T cells.

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	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	ab212634 is purified from Bioreactor Concentrate by Protein A/G.
Clonality	Monoclonal
Clone number	SPM513
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab212634** in the following tested applications.

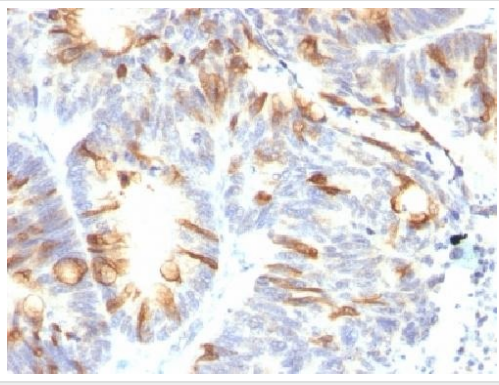
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. for 30 minutes at RT
ICC/IF		Use a concentration of 1 - 2 µg/ml.
Flow Cyt		Use 0.5-1µg for 10 ⁶ cells. in 0.1ml volume

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



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human colon carcinoma tissue labeling MUC2 with ab212634 at 1 µg/ml dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [SPM513] - BSA and Azide free (ab212634)

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