

**ARG53336**  
**anti-MUC2 / Mucin 2 antibody [SPM512]**Package: 500 µl, 250 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [SPM512] recognizes MUC2 / Mucin 2
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	SPM512
Isotype	IgG1
Target Name	MUC2 / Mucin 2
Species	Human
Immunogen	Synthetic peptide corresponding to a site on the MUC-2 glycoprotein.
Conjugation	Un-conjugated
Alternate Names	MUC-2; MLP; Intestinal mucin-2; SMUC; Mucin-2

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:500
	IHC-P	1:200
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min. Incubation Time: 30 min at RT. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Small Intestine	

### Properties

Form	Liquid
Buffer	Tissue culture supernatant in TBS (pH 7.5), 1% BSA and < 0.1% Sodium azide
Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links

[GeneID: 4583 Human](#)

[Swiss-port # Q02817 Human](#)

Background

Secreted epithelial mucins are large macromolecules which exhibit extreme polydispersity. Mucin2 is the major intestinal mucin. O-glycans are attached to Muc2 in a potentially diverse arrangement, which is crucial for their interaction with endogenous and exogenous lectins.

Research Area

Cancer antibody; Controls and Markers antibody; Signaling Transduction antibody

Calculated Mw

540 kDa

PTM

O-glycosylated.

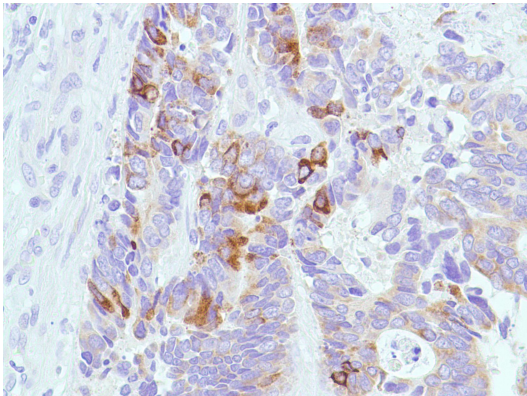
May undergo proteolytic cleavage in the outer mucus layer of the colon, contributing to the expanded volume and loose nature of this layer which allows for bacterial colonization in contrast to the inner mucus layer which is dense and devoid of bacteria.

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

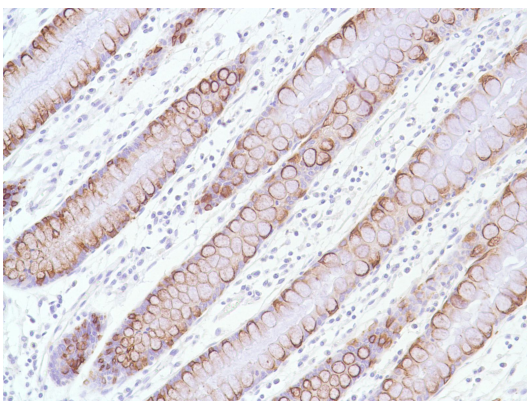
Cytoplasm, Membrane

## Images



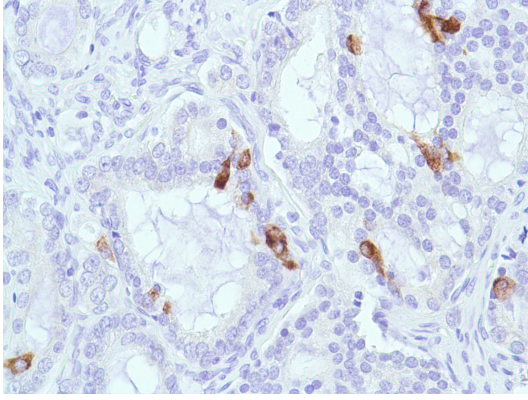
ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512] IHC-P image

Immunohistochemistry: Human Colon Adenocarcinoma stained with ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512].



ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512] IHC-P image

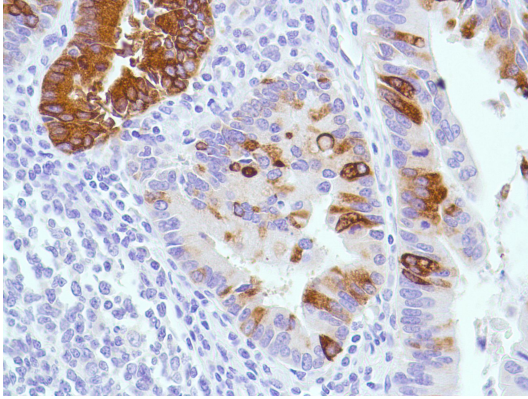
Immunohistochemistry: Human Colon stained with ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512].



ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512] IHC-P image

Immunohistochemistry: Human Prostate Adenocarcinoma stained with ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512].

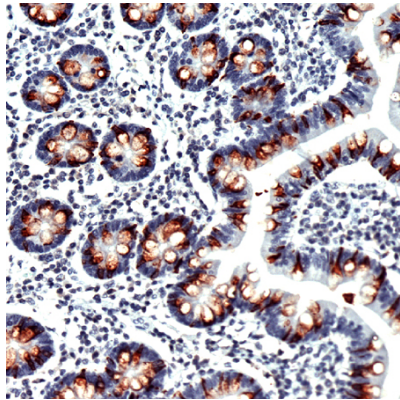
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ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512] IHC-P image

Immunohistochemistry: Human Stomach Adenocarcinoma stained with ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512].

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ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512] IHC-P image

Immunohistochemistry: Human Small Intestine stained with ARG53336 anti-MUC2 / Mucin 2 antibody [SPM512].

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