



MUC2 Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18247
Isotype	IgG
Reactivity	Human
Applications	IHC
Gene Name	MUC2 SMUC
Protein Name	Mucin-2 (MUC-2) (Intestinal mucin-2)
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of MUC2
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	Intestinal mucin 2 ; Intestinal mucin-2 ; MLP ; MUC 2 ; MUC-2 ; Muc2 ; MUC2_HUMAN ; Mucin 2 ; Mucin 2 intestinal ; Mucin 2 intestinal/tracheal ; Mucin 2 oligomeric mucus/gel forming ; Mucin 2 precursor ; Mucin 2 tracheal ; Mucin like protein ; Mucin-2 ; Mucin2 ; SMUC
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasmic
Tissue Specificity	Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.
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.,polymorphism:The number of repeats is highly polymorphic and varies among different alleles.,PTM: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.,PTM:May undergo proteolytic

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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.,PTM:O-glycosylated.,similarity:Contains 1 CTCK (C-terminal cystine knot-like) domain.,similarity:Contains 1 TIL (trypsin inhibitory-like) domain.,similarity:Contains 2 VWFC domains.,similarity:Contains 4 VWFD domains.,subunit:Homotrimer; disulfide-linked. Dimerizes in the endoplasmic reticulum via its C-terminal region and polymerizes via its N-terminal region by disulfide-linked trimerization. Interacts with FCGBP.,tissue specificity:Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.,

Background

This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins produced by many epithelial tissues. The protein encoded by this gene is secreted and forms an insoluble mucous barrier that protects the gut lumen. The protein polymerizes into a gel of which 80% is composed of oligosaccharide side chains by weight. The protein features a central domain containing tandem repeats rich in threonine and proline that varies between 50 and 115 copies in different individuals. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

