ARG66874
anti-MUC2 / Mucin 2 antibody [SQab21246]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab21246] recognizes MUC2 / Mucin 2
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	SQab21246
Isotype	IgG
Target Name	MUC2 / Mucin 2
Species	Human
Immunogen	A 29-amino acid synthetic peptide containing one repeat unit of 23 amino acids and part of the next repeat of four amino acids in the VNTR (variable number of tandem repeats).
Conjugation	Un-conjugated
Alternate Names	MUC-2; MLP; Intestinal mucin-2; SMUC; Mucin-2

Application Instructions

Application table

Application	Dilution
IHC-P	1:100 - 1:200

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

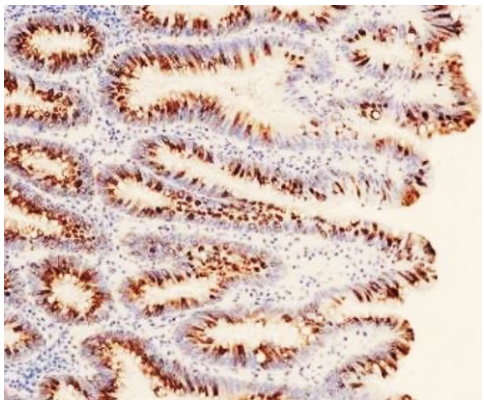
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% 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. 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

Gene Symbol	MUC2
Gene Full Name	mucin 2, oligomeric mucus/gel-forming
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. [UniProt]
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. [UniProt]

Images



ARG66874 anti-MUC2 / Mucin 2 antibody [SQab21246] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human appendix tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66874 anti-MUC2 / Mucin 2 antibody [SQab21246] for 30 min at RT.