

ARG55969 anti-MUC2 / Mucin 2 antibody [CCP58]

Package: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody [CCP58] recognizes MUC2 / Mucin 2 |
| Tested Reactivity | Hu |
| Tested Application | IHC-P |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | CCP58 |
| Isotype | IgG1, kappa |
| Target Name | MUC2 / Mucin 2 |
| Species | Human |
| Immunogen | Synthetic peptide from Human MUC2 protein. (KYPTTTPISTTTMVTPTPTGTQPTTTT) |
| Conjugation | Un-conjugated |
| Alternate Names | MUC-2; MLP; Intestinal mucin-2; SMUC; Mucin-2 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|---------------|
| | IHC-P | 0.5 - 1 µg/ml |

Application Note
IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris-HCl buffer (pH 10.0) for 10-20 min, followed by cooling at RT for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

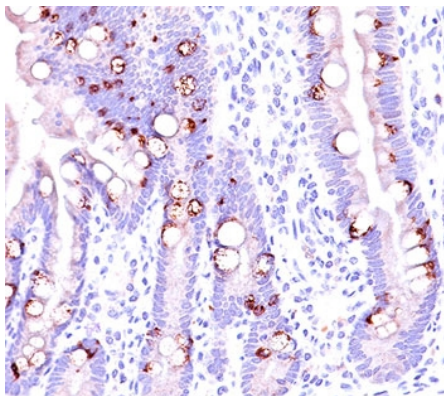
Properties

| | |
|---------------------|--|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA |
| Preservative | 0.05% Sodium azide |
| Stabilizer | 0.1 mg/ml BSA |
| Concentration | 0.2 mg/ml |
| 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

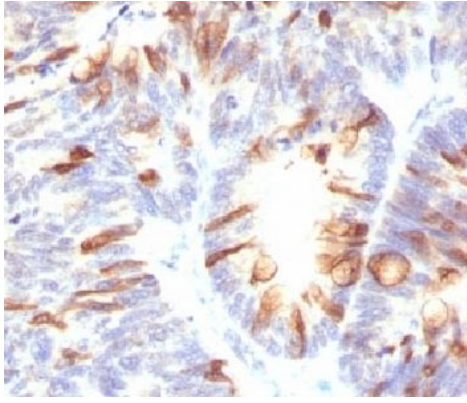
| | |
|-----------------------|---|
| Database links | GeneID: 4583 Human Swiss-port # Q02817 Human |
| Gene Symbol | MUC2 |
| Gene Full Name | mucin 2, oligomeric mucus/gel-forming |
| Background | This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins 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] |
| 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] |
| Highlight | Related products: MUC2 antibodies: Anti-Mouse IgG secondary antibodies: Related news: More than a biomarker, CA19-9 is a therapeutic target of pancreatic cancer |
| 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 | Cytoplasmic and cell surface |

Images



ARG55969 anti-MUC2 / Mucin 2 antibody [CCP58] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded normal Human intestine stained with ARG55969 anti-MUC2 / Mucin 2 antibody [CCP58].



ARG55969 anti-MUC2 / Mucin 2 antibody [CCP58] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human colon carcinoma stained with ARG55969 anti-MUC2 / Mucin 2 antibody [CCP58].