

MUC3 (Mucin 3) Antibody - With BSA and Azide Mouse Monoclonal Antibody [Clone MUC3/1154] Catalog # AH11897

Specification

MUC3 (Mucin 3) Antibody - With BSA and Azide - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW IHC, IF, FC <u>002505</u> <u>4584</u>, <u>57876</u>, <u>744422</u>, <u>744530</u>, <u>09H195</u> Human Mouse Monoclonal Mouse / IgG2a, kappa 1100kDa KDa

MUC3 (Mucin 3) Antibody - With BSA and Azide - Additional Information

Gene ID 4584

Other Names Mucin-3A, MUC-3A, Intestinal mucin-3A, MUC3A, MUC3

Application Note IHC~~1:100~500<br \>IF~~1:50~200<br \>FC~~1:10~50

Storage Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions MUC3 (Mucin 3) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

MUC3 (Mucin 3) Antibody - With BSA and Azide - Protein Information

Name MUC3A (HGNC:7513)

Function

Major glycoprotein component of a variety of mucus gels. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. May be involved in ligand binding and intracellular signaling.

Cellular Location

[Isoform 1]: Membrane; Single-pass membrane protein [Isoform 3]: Secreted [Isoform 5]: Secreted.

Tissue Location

Broad specificity; small intestine, colon, colonic tumors, heart, liver, thymus, prostate, pancreas and gall bladder



MUC3 (Mucin 3) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

MUC3 (Mucin 3) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC3 Monoclonal Antibody (MUC3/1154).



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC3 Monoclonal Antibody (MUC3/1154).





Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MUC3 Monoclonal Antibody (MUC3/1154).

MUC3 (Mucin 3) Antibody - With BSA and Azide - Background

It recognizes a protein of HMW, identified as mucin 3 glycoprotein (MUC3). This MAb shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC2. The Mucins are a family of highly glycosylated, secreted proteins with a basic structure consisting of a variable number of tandem repeats (VNTRs) encoded by 60 base pairs (Mucin 1), 69 base pairs (Mucin 2) and 51 base pairs (Mucin 3). The number of repeats is highly polymorphic and varies among different alleles. Mucin 1 proteins are expressed as type I membrane proteins in addition to secreted forms. Mucin 1 is aberrantly expressed in epithelial tumors including breast carcinomas. Mucin 2 coats the epithelia of the intestines and airways and is associated with colonic tumors. Mucin 3 is a major component of various mucus gels and is broadly expressed in normal and tumor cells.

MUC3 (Mucin 3) Antibody - With BSA and Azide - References

Gum, J.R. Jr., et al. 1990. Molecular cloning of cDNAs derived from a novel human intestinal Mucin gene. Biochem. Biophys. Res. Commun 171: 407-415.