

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

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

|                   |   |
|-------------------|---|
| Application       | ,2,3,4,   |
| Primary Accession | <a href="#">Q02505</a>  |
| Other Accession   | <a href="#">4584</a> , <a href="#">57876</a> , <a href="#">744422</a> , <a href="#">744530</a> , <a href="#">Q9H195</a> |
| Reactivity        | Human   |
| Host              | Mouse   |
| Clonality         | Monoclonal  |
| Isotype           | Mouse / IgG2a, kappa  |
| Calculated MW     | 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

**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**

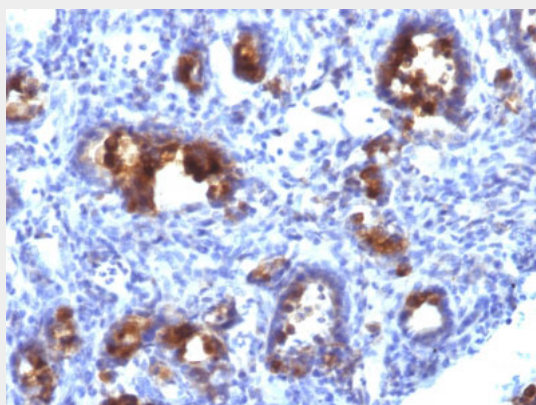
Broad specificity; small intestine, colon, colonic tumors, heart, liver, thymus, prostate, pancreas and gall bladder

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

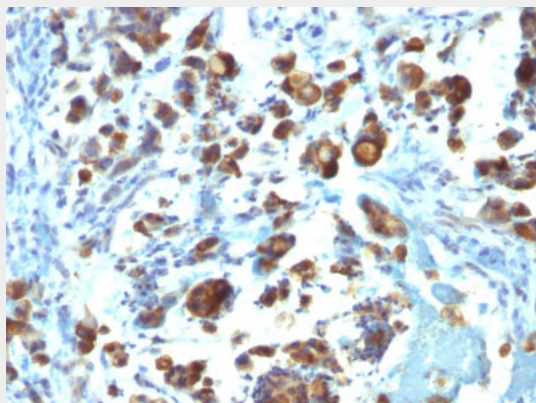
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

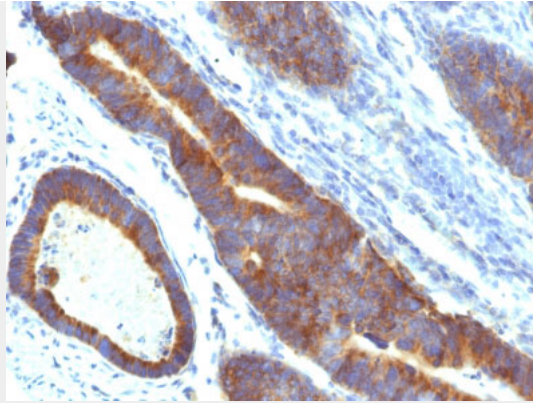
**MUC3 (Mucin 3) Antibody - With BSA and Azide - Images**



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. |