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MUC3 (Mucin 3) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone M3.1]
Catalog # AH11891

Product Information

Application	IHC, IF, FC
Primary Accession	Q02505
Other Accession	4584, 57876, 744422, 744530, Q9H195
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Clone Names	M3.1
Calculated MW	345127

Additional Information

Gene ID	4584
Other Names	Mucin-3A, MUC-3A, Intestinal mucin-3A, MUC3A, MUC3
Application Note	IHC~~1:100~500 IF~~1:50~200 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.

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

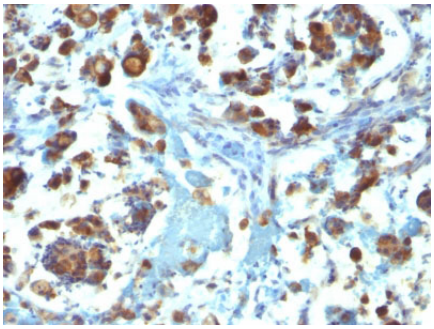
Background

It recognizes a protein of HMW, identified as mucin 3 glycoprotein (MUC3). Its epitope localizes between aa SITTTE. This MAb shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC2. MUC3 is distributed in colon and rectum, and is also present to a lesser extent in breast, lung and salivary gland tissues. 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.

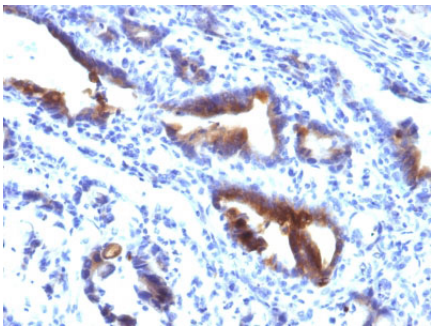
References

Apostolopoulos V, et. al. Journal of Gastroenterology and Hepatology, 1995, 10:555-61. |

Images



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC3 Monoclonal Antibody (M3.1).



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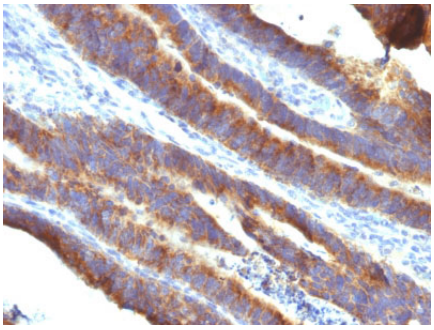

Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MUC3 Monoclonal Antibody (M3.1).