

Mouse anti-Human MUC3 (Mucin 3) Monoclonal Antibody | anti-MUC3A antibody

MUC3 (Mucin 3) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62856	Mouse	Human	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

MUC3 (Mucin 3); Monoclonal Antibody; MUC3 (Mucin 3) Mouse Monoclonal Antibody; Intestinal mucin-3A; intestinal mucin-like; MUC3; MUC3A; MUC3B; mucin 3; intestinal; mucin 3A; cell surface associated; mucin 3B; anti-MUC3A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	M3.1
Specificity	It recognizes a protein of HMW, identified as mucin 3 glycoprotein (MUC3). Its epitope localizes between aa SITTE. 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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	3323
Applicable Applications for anti-MUC3A antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic and Cell Surface
Immunogen	A synthetic peptide of 35 amino acids, SIB35 (C-HSTPSFTSSITTTETTTSHSTPSFTSSITTTETTS), which contains two of the MUC3 tandem repeats, coupled to KLH.
Hu-Chromosome Location	7q22.1
Positive Control	LS174T cells or colon carcinoma and normal colon tissue.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



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



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



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

ADDITIONAL INFORMATION

References	Apostolopoulos V, et. al. Journal of Gastroenterology and Hepatology, 1995, 10:555-61.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	628601833
NCBI GeneID	4584
NCBI Accession #	NP_005951.1
NCBI GenBank Nucleotide #	NM_005960.1
UniProt Accession #	Q02505; O14650; O14651; O43418; O43421; Q02506; Q6W763; Q9H3Q7; Q9UKW9; Q9UN93; Q9UN94; A6NP22
Molecular Weight	1100kDa
NCBI Official Full Name	mucin-3A
NCBI Official Synonym Full Names	mucin 3A, cell surface associated
NCBI Official Symbol	MUC3A
NCBI Official Synonym Symbols	MUC3; MUC-3A
NCBI Protein Information	mucin-3A
UniProt Protein Name	Mucin-3A
UniProt Gene Name	MUC3A
UniProt Synonym Gene Names	MUC-3ACurated
UniProt Entry Name	MUC3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.