

Mouse anti-Human MUC4 (Mucin 4/Gastric Mucin) Monoclonal Antibody | anti-MUC4 antibody

MUC4 (Mucin 4/Gastric Mucin)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215095	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

MUC4 (Mucin 4/Gastric Mucin); Monoclonal Antibody; Ascites sialoglycoprotein 1/2; ASGP; ASGP-1; ASGP-2; MUC-4; MUC4; Mucin 4 cell surface associated; Mucin 4 tracheobronchial; Mucin-4 beta chain; Pancreatic adenocarcinoma mucin; Testis mucin; Tracheobronchial mucin; anti-MUC4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	MUC4/3084
Specificity	The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. MUC-4 transcripts have been detected in normal respiratory epithelium and lung. MUC-4 is a very specific (100%) and sensitive (90%) marker of lung adenocarcinomas and is negative for mesotheliomas. Reportedly, MUC-4 expression in invasive ductal carcinoma of the pancreas is an independent factor for poor prognosis.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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	5412
Applicable Applications for anti-MUC4 antibody	IHC (Immunohistochemistry)
Positive Control	Stomach, Colon or esophagus.
Immunogen	Recombinant fragment (around aa 1730-1864) of human MUC4 protein (exact sequence is proprietary)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	3q29
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



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using MUC4 Mouse Monoclonal Antibody (MUC4/3084) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS_PAGE

SDS-PAGE Analysis Purified MUC4 Mouse Monoclonal Antibody (MUC4/3084). Confirmation of Purity and Integrity of Antibody



IHC (Immunohistochemisry)

Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC4 Mouse Monoclonal Antibody (MUC4/3084).



IHC (Immunohiostchemistry)

Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MUC4 Mouse Monoclonal Antibody (MUC4/3084).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC4 Mouse Monoclonal Antibody (MUC4/3084).

ADDITIONAL INFORMATION

References	Amatya VJ, et al. Mod Pathol, 2017 May.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	257471027
NCBI GeneID	4585
NCBI Accession #	NP_060876.5
NCBI GenBank Nucleotide #	NP_060876.5
UniProt Accession #	Q99102
Molecular Weight	235kDa
NCBI Official Full Name	mucin-4 isoform a
NCBI Official Synonym Full Names	mucin 4, cell surface associated
NCBI Official Symbol	MUC4
NCBI Official Synonym Symbols	ASGP; MUC-4; HSA276359
NCBI Protein Information	mucin-4
UniProt Protein Name	Mucin-4
UniProt Gene Name	MUC4

UniProt Synonym Gene Names	MUC-4; ASGP; ASGP-1; ASGP-2
UniProt Entry Name	MUC4_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/muc4-mucin-4-gastric-mucin-antibody-clone-muc4-3084-immunohistochemistry-elisa/215095>