

MUC4 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant MUC4. Catalog # AT2936a

Product Information

Application WB, IHC, E **Primary Accession Q99102 Other Accession** NM 004532 Reactivity Human Host Mouse Clonality monoclonal Isotype IgG2a Kappa **Clone Names** 5B12

Additional Information

Calculated MW

Gene ID 4585

Other Names Mucin-4, MUC-4, Ascites sialoglycoprotein, ASGP, Pancreatic adenocarcinoma

mucin, Testis mucin, Tracheobronchial mucin, Mucin-4 alpha chain, Ascites sialoglycoprotein 1, ASGP-1, Mucin-4 beta chain, Ascites sialoglycoprotein 2,

ASGP-2, MUC4

Target/Specificity MUC4 (NP_004523, 79 a.a. ~ 188 a.a) partial recombinant protein with GST

tag. MW of the GST tag alone is 26 KDa.

Dilution WB~~1:500~1000 IHC~~1:100~250 E~~N/A

542307

Format Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions MUC4 Antibody (monoclonal) (M07) is for research use only and not for use in

diagnostic or therapeutic procedures.

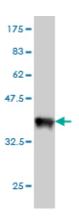
Background

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. At least two dozen transcript variants of this gene have been found, although for many of them the full-length transcript has not been determined or they are found only in tumor tissues. This gene contains a region in the coding sequence which has a variable number (>100) of 48 nt tandem repeats.

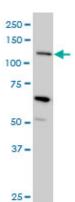
References

1.Expression of MUC1 and MUC4 in Gallbladder Adenocarcinoma.Kim SM, Oh SJ, Hur B.Korean J Pathol. 2012 Oct;46(5):429-35. doi: 10.4132/KoreanJPathol. 2012.46.5.429. Epub 2012 Oct 25.2.Identification of a novel type of CA19-9 carrier molecules in human bile and sera of cancer patients: An implication of the involvement in non-secretory exocytosis.Uozumi N, Gao C, Yoshioka T, Nakano M, Moriwaki K, Nakagawa T, Masuda T, Tanabe M, Miyoshi E.J Proteome Res. 2010 Nov 10. [Epub ahead of print]3.Establishment and characterization of a new human pancreatic adenocarcinoma cell line with high metastatic potential to the lung.Kalinina T, Gungor C, Thieltges S, Moller-Krull M, Murga Penas EM, Wicklein D, Streichert T, Schumacher U, Kalinin V, Simon R, Otto B, Dierlamm J, Schwarzenbach H, Effenberger KE, Bockhorn M, Izbicki JR, Yekebas EF.BMC Cancer. 2010 Jun 16;10(1):295. [Epub ahead of print]4.Isolation and identification of potential urinary microparticle biomarkers of bladder cancer.Smalley DM, Sheman NE, Nelson K, Theodorescu D.J Proteome Res. 2008 May;7(5):2088-96. Epub 2008 Mar 29.

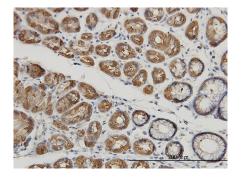
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa).

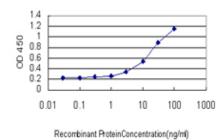


MUC4 monoclonal antibody (M07), clone 5B12 Western Blot analysis of MUC4 expression in HeLa ((Cat # AT2936a)



Immunoperoxidase of monoclonal antibody to MUC4 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]

Detection limit for recombinant GST tagged MUC4 is approximately 0.3ng/ml as a capture antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.