

Mouse anti-Human MUC1 Antibody | anti-MUC1 antibody

Anti-MUC1 [PAM4], Mouse IgG1

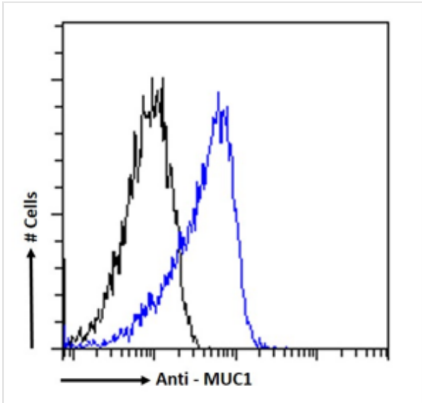
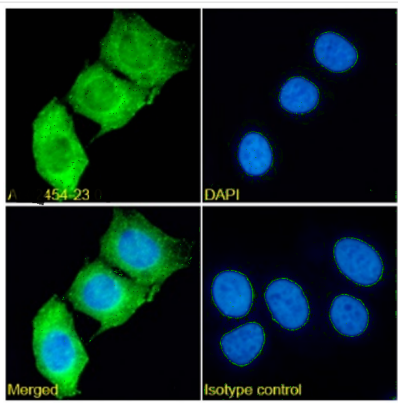
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72286	Mouse	Human	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

MUC1; Anti-MUC1 [PAM4]; Mouse IgG1; Mucin-1; Breast carcinoma-associated antigen DF3; Cancer antigen 15-3; CA 15-3; Carcinoma-associated mucin; Episialin; H23AG; Krebs von den Lungen-6; KL-6; PEMT; Peanut-reactive urinary mucin; PUM; Polymorphic epithelial mucin; PEM; Tumor-associated epithelial membrane antigen; EMA; Tumor-associated mucin; CD227; anti-MUC1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1, Kappa
Clone Number	PAM4
Specificity	This antibody is specific for the PAM4 domain of the human MUC1 protein.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MUC1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Immunogen	The original antibody was raised by immunization of mice with the PAM4 antigen.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



IF (Immunofluorescence)
Immunofluorescence staining of MCF7 cells with anti-MUC1 (AAA72286) PAM4
Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells stained with the chimeric rabbit IgG version of PAM4 (AAA72286-23.0) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72286-23.0, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-MUC1 antibody PAM4 (AAA72286). Paraformaldehyde fixed MCF7 cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of PAM4 (AAA72286-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-MUC1 antibody	This antibody was used for immunohistochemistry on normal adult tissues and neoplastic tissues. This yielded no to weak staining in normal tissue and stronger staining in 85% of the neoplastic tissue (US7238786). ELISA was performed on blood serum of healthy humans, pancreatic cancer patients, pancreatitis patients, ovarian cancer patients and breast cancer patients (US7238786). This antibody was used to treat mice that were given the CaPanI tumor. The animals showed regression of tumor (US7238786). ELISA was performed on blood sera of cancer patients using this antibody (Gold et al, 2005; pmid:16344318). Immunohistochemistry was performed on 63 PanIN and 36 IPMN lesions using this antibody (Gold et al, 2007; pmid:18094420). Flow cytometry was performed on the cell lines: RPMI 8226, U266, MC/CAR JJN-3, KMS12-BM, KMS 12-PE, DUL4, MUC1, breast carcinoma cell lines, MCF7, MDA-MB468, T47D, ZR-75-30, and a pancreatic carcinoma cell line, CaPan-1. This was done using this antibody (Burton et al, 1999; pmid:10541345). A western blot was performed using this antibody (Burton et al, 1999; pmid:10541345).
Product Categories/Family for anti-MUC1 antibody	tumor marker; cancer; oncology
References	Gold et al. PAM4-reactive MUC1 is a biomarker for early pancreatic adenocarcinoma. Clin Cancer Res. 2007 Dec 15;13(24):7380-7. PMID:18094420

NCBI AND UNIPROT INFORMATION

NCBI GI #	67189007
NCBI GeneID	4582
NCBI Accession #	NP_001018016.1
NCBI GenBank Nucleotide #	NM_001018016.2
UniProt Accession #	P15941; P13931; P15942; P17626; Q0VAP6; Q14128; Q14876; Q16437; Q16442; Q16615; B1AVQ8; B1AVR0
Molecular Weight	122,102 Da
NCBI Official Full Name	mucin-1 isoform 2
NCBI Official Synonym Full Names	mucin 1, cell surface associated
NCBI Official Symbol	MUC1
NCBI Official Synonym Symbols	EMA; PEM; PUM; KL-6; MAM6; PEMT; CD227; H23AG; MUC-1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC

NCBI Protein Information	mucin-1; episialin; DF3 antigen; H23 antigen; cancer antigen 15-3; krebs von den Lungen-6; mucin 1, transmembrane; tumor-associated mucin; carcinoma-associated mucin; polymorphic epithelial mucin; peanut-reactive urinary mucin; tumor associated epithelial
UniProt Protein Name	Mucin-1
UniProt Gene Name	MUC1
UniProt Synonym Gene Names	PUM; MUC-1; CA 15-3; KL-6; PUM; PEM; EMA; MUC1-NT; MUC1-alpha; MUC1-beta
UniProt Entry Name	MUC1_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/mouse-human-antibody/muc1/72286>