

Mouse anti-Human MUC1/CA15-3/EMA/CD227 Monoclonal Antibody | anti-MUC1 antibody

MUC1/CA15-3/EMA/CD227 (Epithelial Marker)

CATALOG # AAA215093	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Immunofluorescence
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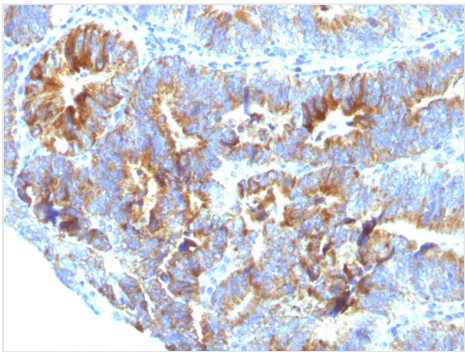
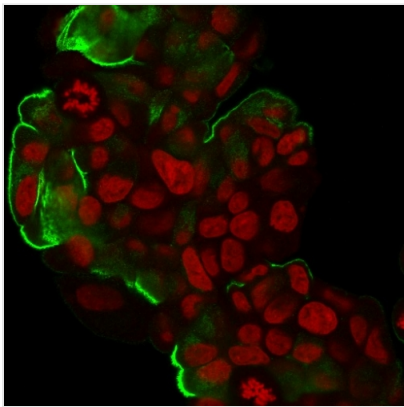
PRODUCT SYNONYMS

MUC1/CA15-3/EMA/CD227; Monoclonal Antibody; MUC1/CA15-3/EMA/CD227 (Epithelial Marker); Breast carcinoma-associated antigen DF3; CA15-3; Carcinoma-associated mucin Episialin; Epithelial Membrane Antigen; H23AG; KL-6; MAM6; MUC-1; MUC-1/SEC; MUC-1/X; MUC1-alpha; MUC1-beta; MUC1-CT; MUC1-NT; MUC1/ZD; Mucin 1 cell surface associated; Mucin-1 subunit beta; Peanut-reactive urinary mucin; PEM; PEMT; Polymorphic epithelial mucin; PUM; Tumor-associated epithelial membrane antigen; anti-MUC1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SPM493
Specificity	This MAb reacts with MUC1/EMA. It is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells. It is expressed on most secretory epithelium, including mammary gland. It is expressed abundantly in lactating mammary glands and over expressed abundantly in 90% breast carcinomas and metastases. MUC1/EMA may provide a protective layer on epithelial cells against bacterial and enzyme attack. In immunohistochemical assays, it superbly stains routine formalin-paraffin carcinoma tissues. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.
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 on 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	264
Applicable Applications for anti-MUC1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence)
Positive Control	MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.
Immunogen	Human breast cancer cell line ZR-75 cells
Cellular Localization	Cytoplasmic and Cell Surface
Hu-chromosome Location	1q22
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 MUC1/CA15-3/EMA Mouse Monoclonal Antibody (SPM493).

IF (Immunofluorescence)
Immunofluorescence Analysis of PFA-fixed MCF-7 cells stained with MUC-1/CA15-3/EMA Mouse Monoclonal Antibody (HMPV) followed by Goat anti-Mouse IgG-CF488 (Green). Nuclear counterstain is RedDot'

ADDITIONAL INFORMATION

References	Xing PX, Prenzoska J, McKenzie IF. Epitope mapping of anti-breast and anti-ovarian mucin monoclonal antibodies. Mol Immunol. 1992 May;29(5):641-50.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	67189007
NCBI GeneID	4582
NCBI Accession #	NP_001018016.1
NCBI GenBank Nucleotide #	NP_001018016.1
UniProt Accession #	P15941
Molecular Weight	265-400kDa
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; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC
NCBI Protein Information	mucin-1
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.