

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

MUC1 / EMA /CD227 (Epithelial Marker) Mouse Monoclonal Antibody

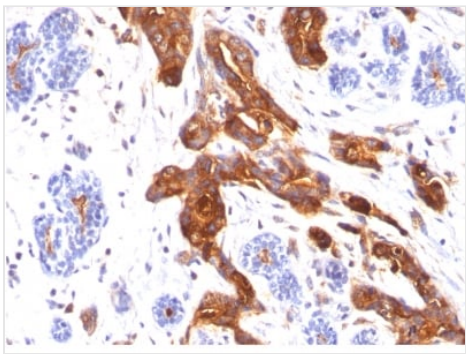
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13841	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

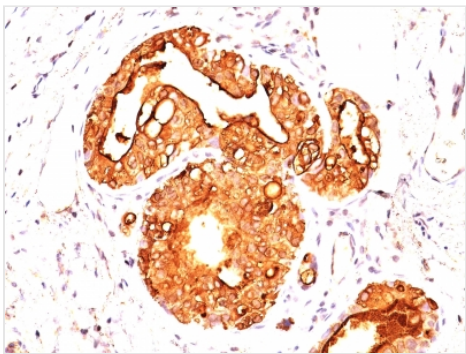
MUC1 / EMA /CD227; Monoclonal Antibody; MUC1 / EMA /CD227 (Epithelial Marker) Mouse Monoclonal Antibody; Breast carcinoma-associated antigen DF3; CA15-3; Carcinoma-associated mucin Episialin; Epithelial Membrane Antigen; H23AG; KL-6; MAM6; MUC-1; MUC-1/SEC; MUC-1/X; MUC1-alpha; MUC1-beta; MUC1-CT; MUC1-NT; 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; Tumor-associated mucin; anti-MUC1 antibody

PRODUCT SPECIFICATIONS

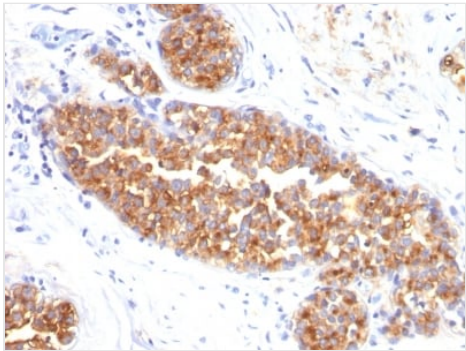
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	MUC1/845
Specificity	In Western blotting, it recognizes proteins in MW range of 265-400kDa, identified as different glycoforms of EMA. The alpha subunit has cell adhesive properties. It can act both as an adhesion and an anti-adhesion protein. EMA may provide a protective layer on epithelial cells against bacterial and enzyme attack. The beta subunit contains a C-terminal domain, which is involved in cell signaling, through phosphorylations and protein-protein interactions. 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.
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	264
Applicable Applications for anti-MUC1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (0.5-1ug/million cells in 0.1ml) Immunofluorescence (0.5-1ug/ml) Immunohistochemistry (Formalin-fixed) (0.1-0.2ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)
Cellular Localization	Cytoplasmic and Cell Surface
Immunogen	Human milk-fat globule membranes (HMFGM)
Hu-Chromosome Location	1q22
Positive Control	MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.
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.



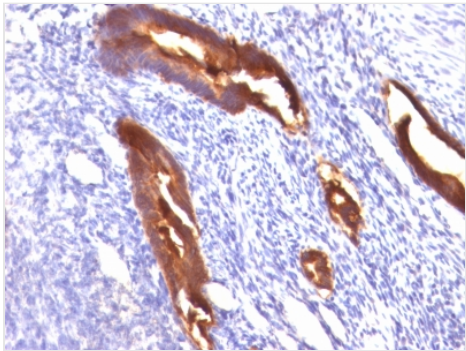
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with MUC1 / EMA Monoclonal Antibody (MUC1/845).



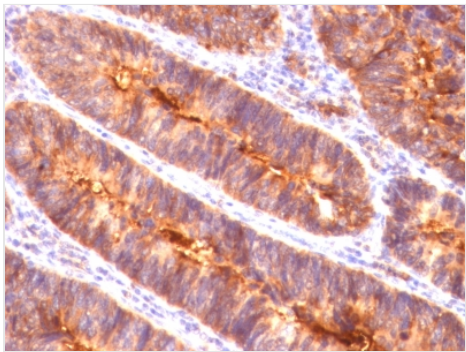
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with MUC1 / EMA Monoclonal Antibody (MUC1/845).



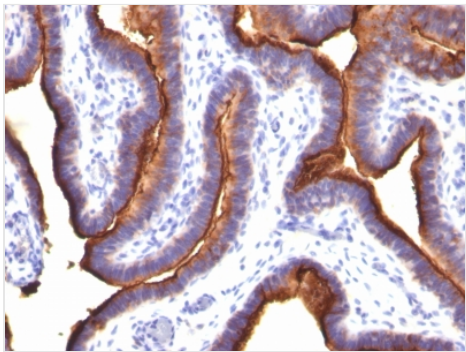
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with MUC1 / EMA Monoclonal Antibody (MUC1/845).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with MUC1 / EMA Monoclonal Antibody (MUC1/845).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MUC1 / EMA Monoclonal Antibody (MUC1/845).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with MUC1 / EMA Monoclonal Antibody (MUC1/845).

ADDITIONAL INFORMATION

References	Rughetti, A., et al. 2005. Recombinant tumor-associated Mucin 1 glycoprotein impairs the differentiation and function of dendritic cells. J. Immunol. 174: 7764-7772.
------------	---

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; A5YRV1; A6ZID9; A6ZIE0; B1AVQ8; B1AVR0; B6ECA1; E7ESE5; E7EUG9
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.