

Product datasheet for UM870008

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

EMA (MUC1) Mouse Monoclonal Antibody [Clone ID: UMAB57]

Product data:

Product Type: Primary Antibodies

Clone Name: UMAB57

Applications: 10k-ChIP, IF, IHC, WB

Recommended Dilution: IHC 1:100
Reactivity: Human
Host: Mouse
Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human MUC1 (NP_001018016) produced in

HEK293T cell.

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 0.5~1.0 mg/ml (Lot Dependent)

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 25.1 kDa

Gene Name: mucin 1, cell surface associated

Database Link: NP 001018016

Entrez Gene 4582 Human

P15941



Background:

This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

Synonyms: ADMCKD; ADMCKD1; CA 15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-

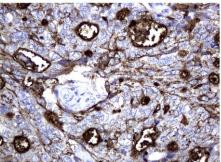
1; SEC

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

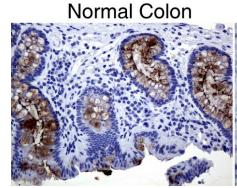
Product images:



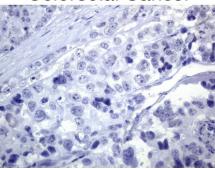
Breast Adenocarcinoma



Immunohistochemical staining of paraffinembedded Human normal breast tissue and breast adenocarcinoma tissue using anti-MUC1 mouse monoclonal antibody. ([UM800008]; heatinduced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:100)



Colorectal Cancer

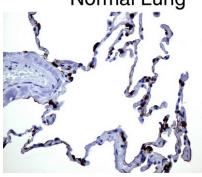


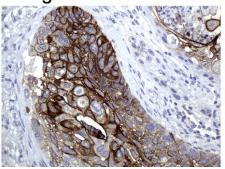
Immunohistochemical staining of paraffinembedded Human normal colon tissue and colorectal cancer tissue using anti-MUC1 mouse monoclonal antibody. ([UM800008]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:100)



Normal Lung

Lung Adenocarcinoma

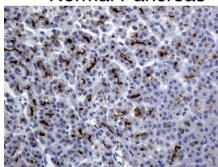


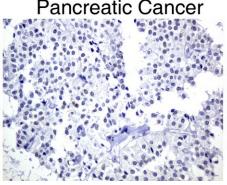


Immunohistochemical staining of paraffinembedded Human normal lung tissue and lung adenocarcinoma tissue using anti-MUC1 mouse monoclonal antibody. ([UM800008]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:100)

Normal Pancreas

Pancreatic Cancer

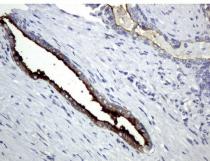


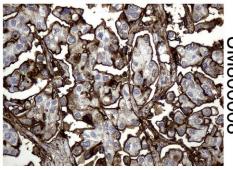


Immunohistochemical staining of paraffinembedded Human normal pancreas tissue and pancreatic cancer tissue using anti-MUC1 mouse monoclonal antibody. ([UM800008]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:100)

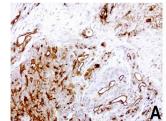
Normal Bladder

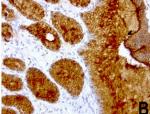
Bladder Cancer

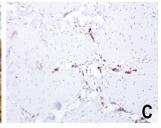




Immunohistochemical staining of paraffinembedded Human normal bladder tissue and bladder cancer tissue using anti-MUC1 mouse monoclonal antibody. ([UM800008]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:100)

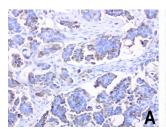


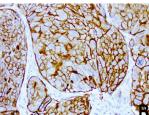


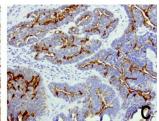


Immunohistochemical staining of paraffinembedded human stomach carcinoma using anti-MUC1 (EMA) mouse monoclonal antibody at 1:200 dilution of1mg/mL using Polink2 Broad HRP DAB for detection. [UM800008] requires heatinduced epitope retrieval with Accel pH8.7 at 110°C for 3min using pressure chamber/cooker. The image is a composite of 3 tumors which show strong membranous and cytoplasmic staining in >75 % tumor cells.

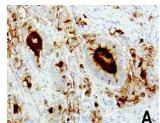


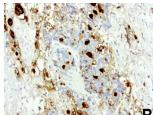


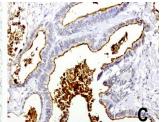


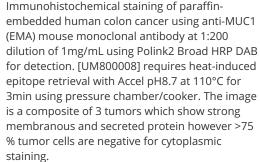


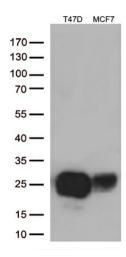
Immunohistochemical staining of paraffinembedded human ovarian carcinoma using anti-MUC1 (EMA) mouse monoclonal antibody at 1:200 dilution of 1mg/mL using Polink2 Broad HRP DAB for detection. [UM800008] requires heat-induced epitope retrieval with Accel pH8.7 at 110°C for 3min using pressure chamber/cooker. The image is a composite of 3 tumors which show strong membranous and weak cytoplasmic staining in >75 % tumor cells.





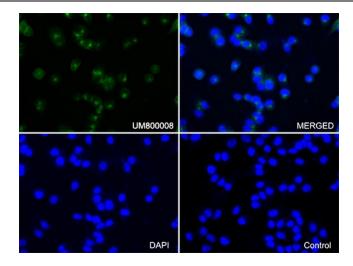




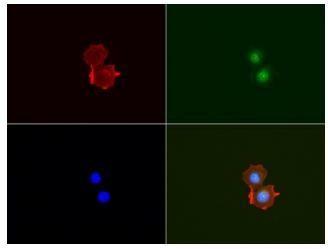


Western blot analysis of extracts (35ug) from 2 different cell lines by using anti-MUC1 monoclonal antibody (1:500).

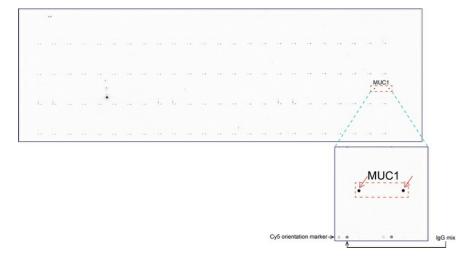




Immunofluorescent staining of T47D cells using anti-MUC1 antibody ([UM800008]/green, upper left; DAPI/blue, lower left; MERGED, upper right) or Isotype control (MERGED, lower right) (1:100).



Immunofluorescent staining of MCF-7 cells using anti-MUC1/EMA mouse monoclonal antibody ([UM800008], green, 1:100). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-MUC1 mouse monoclonal antibody (Clone UMAB37). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-MUC1 (Clone UMAB57) very specifically recognizes MUC1 antigen on OriGene protein microarray chip (1:100).