

EMA / MUC1 Antibody

Mouse Monoclonal Antibody Catalog # ALS12140

Specification

EMA / MUC1 Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Dilution

WB, IHC-P, E
P15941
Human
Mouse
Monoclonal
122kDa KDa
WB~~1:1000
IHC-P~~N/A
E~~N/A

EMA / MUC1 Antibody - Additional Information

Gene ID 4582

Other Names

Mucin-1, MUC-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, Mucin-1 subunit alpha, MUC1-NT, MUC1-alpha, Mucin-1 subunit beta, MUC1-beta, MUC1-CT, MUC1, PUM

Target/Specificity

Recognizes human Mucin 1

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

EMA / MUC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

EMA / MUC1 Antibody - Protein Information

Name MUC1

Synonyms PUM

Function

The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack.

Cellular Location



Apical cell membrane; Single-pass type I membrane protein. Note=Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells After endocytosis, internalized and recycled to the cell membrane Located to microvilli and to the tips of long filopodial protusions [Isoform Y]: Secreted. [Mucin-1 subunit beta]: Cell membrane. Cytoplasm. Nucleus. Note=On EGF and PDGFRB stimulation, transported to the nucleus through interaction with CTNNB1, a process which is stimulated by phosphorylation. On HRG stimulation, colocalizes with JUP/gamma-catenin at the nucleus

Tissue Location

Expressed on the apical surface of epithelial cells, especially of airway passages, breast and uterus. Also expressed in activated and unactivated T-cells. Overexpressed in epithelial tumors, such as breast or ovarian cancer and also in non-epithelial tumor cells. Isoform Y is expressed in tumor cells only

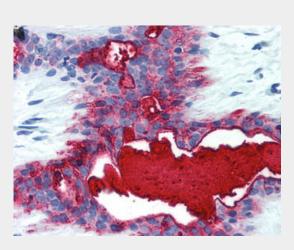
Volume 125 µl

EMA / MUC1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EMA / MUC1 Antibody - Images

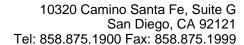


Anti-MUC1 antibody IHC of human breast.

EMA / MUC1 Antibody - Background

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EMA / MUC1 Antibody - References





Lan M.S.,et al.J. Biol. Chem. 265:15294-15299(1990). Ligtenberg M.J.L.,et al.J. Biol. Chem. 265:5573-5578(1990). Gendler S.J.,et al.J. Biol. Chem. 265:15286-15293(1990). Lancaster C.A.,et al.Biochem. Biophys. Res. Commun. 173:1019-1029(1990). Wreschner D.H.,et al.Eur. J. Biochem. 189:463-473(1990).