

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

Mouse Monoclonal Antibody [Clone GP1.4 + E29]

Catalog No	Format	Size
4582-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4582-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4582-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

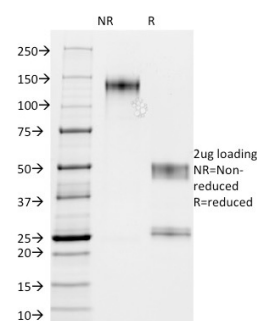
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

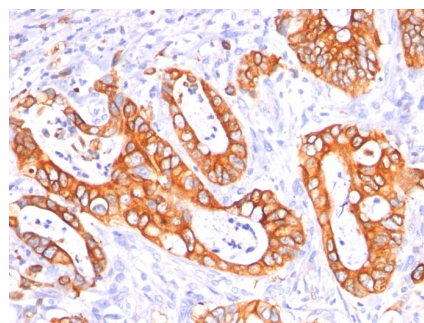
<b>Clone</b>	GP1.4 + E29
<b>Gene Name</b>	MUC1
<b>Immunogen</b>	Human milk fat globule membranes (GP1.4); Delipidated extract of human milk fat globule membranes (E29)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1, IgG2a / Kappa, Lambda
<b>Mol. Weight of Antigen</b>	265-400kDa
<b>Cellular Localization</b>	Apical cell membrane, Cell membrane, Cytoplasm, Nucleus, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Colon, endometrial carcinoma., MCF-7 or MDA-231 cells. Breast, Ovarian

\*Optimal dilution for a specific application should be determined.

### Product Images for MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Antibody



SDS-PAGE Analysis of Purified MUC-1 Mouse Monoclonal Antibody (GP1.4 + E29). Confirmation of Integrity and Purity of Antibody



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MUC-1 Mouse Monoclonal Antibody (GP1.4 + E29)

### Specificity & Comments

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.

### Supplied As

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.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cancer, Cytokine Signaling, Immunology, Infectious Disease

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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