

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

Mouse Monoclonal Antibody [Clone SPM533]

Catalog No	Format	Size
4582-MSM2X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4582-MSM2X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4582-MSM2X-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

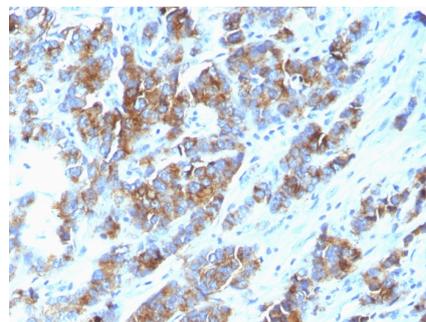
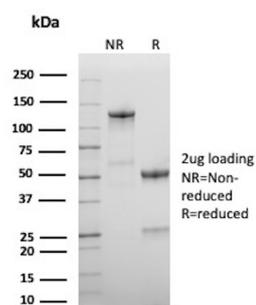
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	SPM533
<b>Gene Name</b>	MUC1
<b>Immunogen</b>	Delipidated extract of human milk fat globule membranes
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2a / 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 Mucin-1 Mouse Monoclonal Antibody (SPM533). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (SPM533)

### **Specificity & Comments**

In Western blotting, it recognizes proteins in MW range of 265-400kDa, identified as different glycoforms of EMA. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit and the C-terminal beta subunit. 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 carcinomas. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

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### **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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### **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.

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### **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.

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### **Research Areas**

Cancer, Cytokine Signaling, Immunology, Infectious Disease

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