

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

Mouse Monoclonal Antibody [Clone HMPV]

Catalog No	Format	Size
4582-MSM14-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4582-MSM14-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4582-MSM14-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

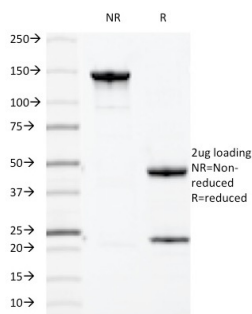
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

### Product Details

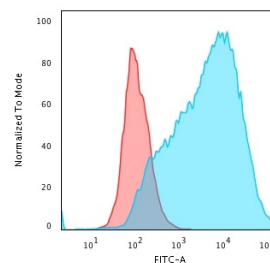
<b>Clone</b>	HMPV
<b>Gene Name</b>	MUC1
<b>Immunogen</b>	Human breast cancer cell line ZR-75 cells
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	265-400kDa
<b>Cellular Localization</b>	Apical cell membrane, Cell membrane, Cytoplasm, Nucleus, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human kidney, lung, Colon, endometrial carcinoma., MCF-7 or MDA-231 cells. Breast, Ovarian

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

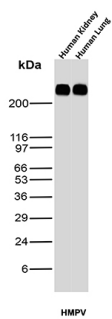
### Product Images for MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Antibody



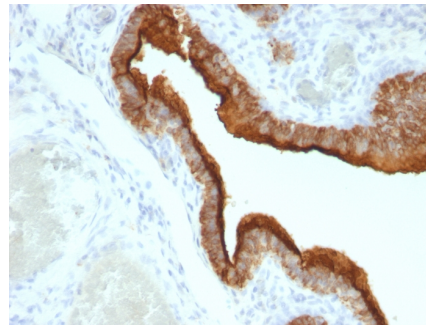
SDS-PAGE Analysis of Purified MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (HMPV). Confirmation of Integrity and Purity of Antibody



Flow Cytometric Analysis of PFA fixed MCF-7 cells. MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (HMPV); followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red)



Western Blot Analysis of Human kidney and Human Lung tissue lysates using MUC-1 Mouse Monoclonal Antibody (HMPV).



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

### Specificity & Comments

This MAb recognizes full-length MUC1 in a glycosylation-independent manner and can bind to the fully glycosylated protein. The dominant epitope of this MAb is APDTR in the VNTR region. It reacts with the core peptide of the MUC1 protein, which is a member of a family of mucin glycoproteins that are characterized by high carbohydrate content, O-linked oligosaccharides, high molecular weight (>200kDa) and an amino acid composition rich in serine, threonine, proline and glycine. The core protein contains a domain of 20 amino-acid tandem repeats that functions as multiple epitopes for the MAb. Incomplete glycosylation of some tumor-associated mucins may lead to variable unmasking of the multiple peptide epitopes leading to the observed differences in staining intensity between normal and malignant tissues. This MAb reacts with both normal and malignant epithelia of various tissues including breast and colon.

### 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.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate on 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

Cytokine Signaling, Immunology, Infectious Disease