

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

Mouse Monoclonal Antibody [Clone Mc5]

Catalog No	Format	Size
4582-MSM29-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4582-MSM29-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4582-MSM29-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

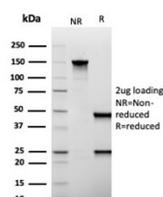
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

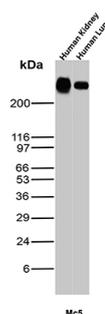
Clone	Mc5
Gene Name	MUC1
Immunogen	Delipidated human milk fat globules
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	>400kDa
Cellular Localization	Apical cell membrane, Cell membrane, Cytoplasm, Nucleus, Secreted
Species Reactivity	Human, Mouse
Positive Control	Human kidney, lung, breast carcinoma or normal breast.

*Optimal dilution for a specific application should be determined.

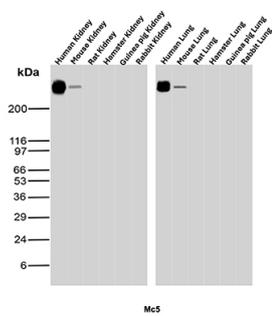
Product Images for MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Antibody



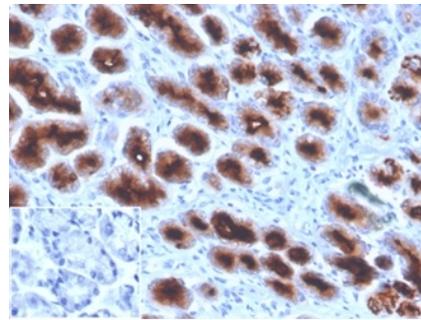
SDS-PAGE Analysis of Purified MUC1 Mouse Recombinant Monoclonal Antibody (Mc5). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of Human kidney and Human Lung tissue lysates using MUC-1 Mouse Monoclonal Antibody (Mc5).



Western Blot Analysis of Human Kidney, Mouse Kidney, Rat Kidney, Hamster Kidney, Guinea pig Kidney, Rabbit Kidney, Human Lung, Mouse Lung, Rat Lung, Hamster Lung, Guinea pig Lung and Rabbit Lung tissue lysates using MUC-1 Mouse Monoclonal Antibody (Mc5).



Formalin-fixed, paraffin-embedded human stomach stained with MUC1 Mouse Recombinant Monoclonal Antibody (Mc5). Inset: PBS instead of primary antibody, secondary negative control.

Specificity & Comments

The mucin antigen recognized by Mc-5 is a glycosylated molecule with a molecular mass of 400 kD. The sequence to which this antibody binds is Thr-Arg-Pro-Ala-Pro. Although EMA is primarily located in mammary gland epithelium, other normal epithelia (e.g., lung) will also react against EMA antibody. Staining, however, is the strongest in mammary epithelia. The combination of positive staining for keratin with negative EMA can be used to phenotype the above-mentioned epithelial tumors. Recognizes the mucin antigen that is present in most epithelial tissues (breast, colonic, bronchial, gastric, etc.) This antibody does not recognize myelopoietic, lymphopoietic, fibroblasts or sarcomatous cells.

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 recombinant MAb purified 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

Cytokine Signaling, Immunology, Infectious Disease