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

Mouse Monoclonal Antibody [Clone rMUC1/4418]

Catalog No	Format	Size
4582-MSM28-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4582-MSM28-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4582-MSM28-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

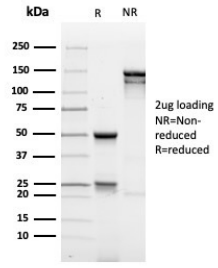
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

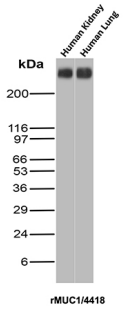
Clone	rMUC1/4418
Gene Name	MUC1
Immunogen	Recombinant full-length human MUC1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	265-400kDa
Cellular Localization	Apical cell membrane, Cell membrane, Cytoplasm, Nucleus, Secreted
Species Reactivity	Human
Positive Control	Colon, MCF-7 or MDA-231 cells. Breast, ovarian or endometrial carcinoma. Kidney, Lung.

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

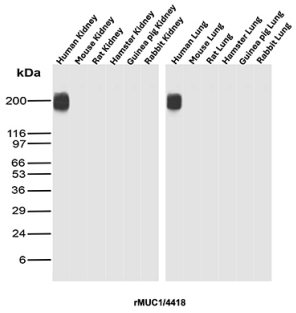
Product Images for Recombinant MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Antibody



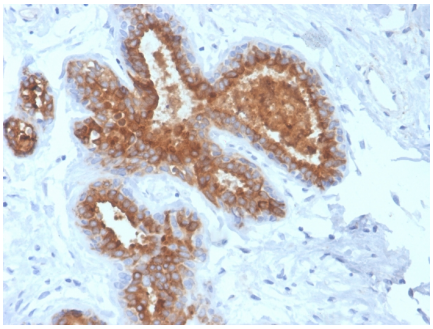
SDS-PAGE Analysis of Purified MUC-1 Recombinant Mouse Monoclonal Antibody (rMUC1/4418). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of Human Kidney and Human Lung tissue lysates using MUC-1 Recombinant Mouse Monoclonal Antibody (rMUC1/4418).



Western Blot Analysis of Kidney and Lung tissue lysates of different species using MUC-1 Recombinant Mouse Monoclonal Antibody (rMUC1/4418).



Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC-1 / EMA Recombinant Mouse Monoclonal Antibody (rMUC1/4418).

Specificity & Comments

In Western blotting, it recognizes proteins in MW range of 265-400kDa, identified as different glycoforms of EMA. EMA may provide a protective layer on epithelial cells against bacterial and enzyme attack. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinomas. Anti-EMA antibody is a useful marker for staining many carcinomas. It stains normal and neoplastic cells from various tissues, including mammary epithelium, sweat glands and colorectal carcinoma. Hepatocellular carcinoma, adrenal carcinoma and embryonal carcinomas are consistently EMA negative, so keratin positivity with negative EMA favors one of these tumors. EMA is frequently positive in meningioma, which can be useful when distinguishing it from other intracranial neoplasms such as schwannomas. 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 produced in the CHO cell mammalian-based expression system. 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

Limitations and Warranty