Catalog # 4582-MSM5
Product Datasheet

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

Mouse Monoclonal Antibody [Clone 139H2]

Catalog No	Format	Size
4582-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4582-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4582-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

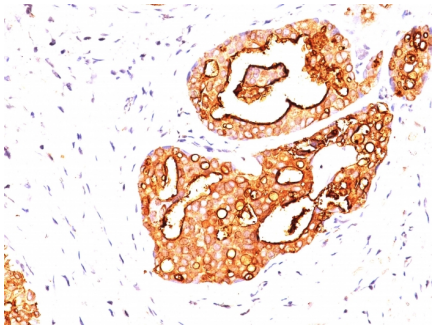
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling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

Product Details

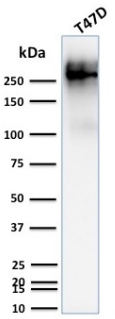
Clone	139H2
Gene Name	MUC1
Immunogen	Human milk-fat globule membranes (HMFGM)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	265-400kDa
Cellular Localization	Apical cell membrane, Cell membrane, Cytoplasm, Nucleus, Secreted
Species Reactivity	Human
Positive Control	Human breast, colon, ovarian or endometrial carcinoma. MCF-7 or MDA-231 cells.

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

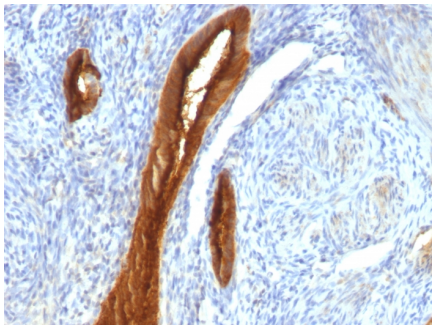
Product Images for MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Antibody



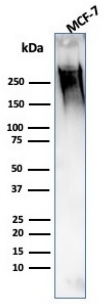
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (139H2).



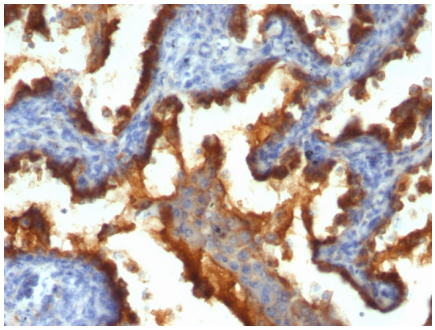
Western Blot Analysis of human T47D cell lysate using MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (139H2).



Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (139H2).



Western Blot Analysis of human MCF-7 cell lysate using MUC-1 / CA15-3 /EMA Mouse Monoclonal Antibody (139H2).



Formalin-fixed, paraffin-embedded human Lung Carcinoma stained with MUC-1 / CA15-3 / EMA Mouse Monoclonal Antibody (139H2).

Specificity & Comments

This MAb reacts with MUC1. The dominant epitope of this MAb has not yet been determined. MUC1 is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. It is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and over expressed abundantly in >90% breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four c-erbB receptors and localize with c-erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. The major expressed form of MUC1 uses all seven exons and is a type 1 transmembrane protein with a large extracellular tandem repeat domain. The tandem repeat domain is highly O glycosylated and alterations in glycosylation have been shown in epithelial cancer cells. 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

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.

2 Union Square, Union City, CA 94587, Tel: 1-866-2-NEOBIO (1-866-263-6246)
orders@NeoBiotechnologies.com, www.NeoBiotechnologies.com

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