E-Cadherin/ CD324 (Intercellular Junction Marker) Antibody

Mouse Monoclonal Antibody [Clone SPM471]

Catalog No	Format	Size
999-MSM5XX-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
999-MSM5XX-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
999-MSM5XX-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

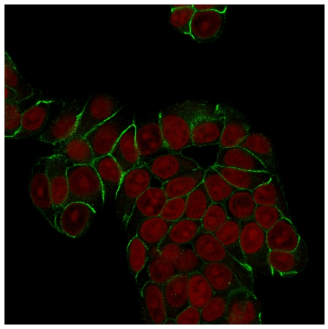
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling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

Product Details

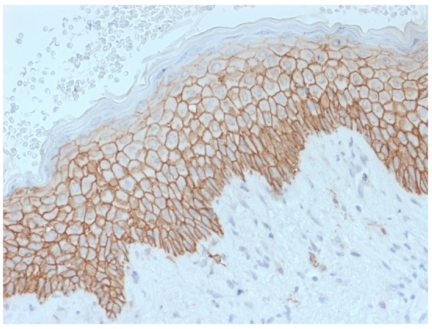
Clone	SPM471
Gene Name	CDH1
Immunogen	Recombinant human E-Cadherin protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	120-80kDa (Mature); 135kDa (Precursor)
Cellular Localization	Adherens junction, Cell junction, Cell membrane, Endosome, Golgi apparatus, trans-Golgi network
Species Reactivity	Human, Mouse
Positive Control	LS174T, Raji or SK-BR3 cells. Human prostate or colon carcinomas.

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

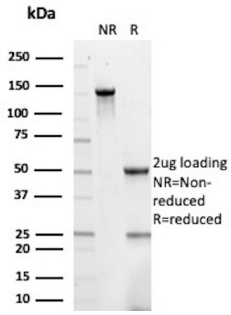
Product Images for E-Cadherin/ CD324 (Intercellular Junction Marker) Antibody



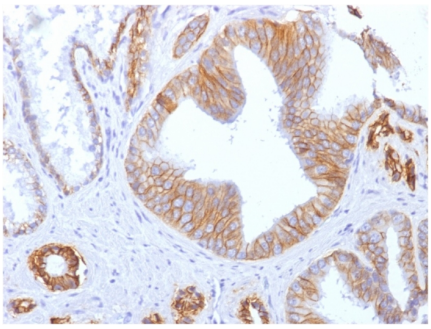
Confocal immunofluorescence analysis of MCF-7 cells. CF488-labeled E-Cadherin Mouse Monoclonal Antibody (SPM471). Nuclear counterstain is RedDot.



Formalin-fixed, paraffin-embedded human skinstained with E-Cadherin Mouse Monoclonal Antibody (SPM471).



SDS-PAGE Analysis of Purified Cadherin-1 Mouse Monoclonal Antibody (SPM471). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human prostate carcinoma stained with E-Cadherin Mouse Monoclonal Antibody(SPM471).

Specificity & Comments

Recognizes a protein of 120-80kDa, identified as E-cadherin. Cadherins comprise a family of Ca2+-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. The classical cadherins, E-, N- and P-cadherin, consist of large extracellular domains characterized by a series of five homologous NH2 terminal repeats. The relatively short intracellular domains interact with a variety of cytoplasmic proteins, such as ?-catenin, to regulate cadherin function. E-cadherin plays an important role in epithelial cell adhesion. A decreased expression of E-cadherin is associated with metastatic potential and poor prognosis in breast cancer, prostate and esophageal cancer. In combination with p120 Catenin, it is useful for the differentiation between ductal (E-cadherin +) and lobular (E-cadherin -) breast carcinomas. It may also help in diagnosis of mesothelioma.

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

Bladder Cancer, Cardiovascular, Colon Cancer, Developmental Biology, Immunology, Infectious Disease, Signal Transduction

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.