Recombinant E-Cadherin (CDH1) / CD324 (Intercellular Junction Marker) Antibody

Mouse Monoclonal Antibody [Clone rCDH1/1525]

Catalog No	Format	Size
999-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
999-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
999-MSM7-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

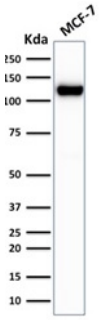
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

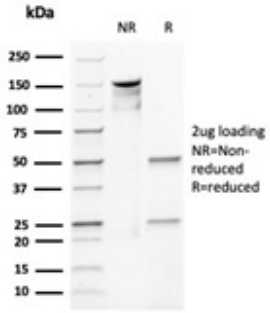
Clone	rCDH1/1525
Immunogen	Recombinant fragment (around aa757-778) of the human E-Cadherin (CDH1) protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	97.45kDa
Cellular Localization	Adherens junction, Cell junction, Cell membrane, Cytoplasm, Desmosome, Endosome, Golgi apparatus, trans-Golgi network
Species Reactivity	Human
Positive Control	Human placenta, prostate or colon carcinomas. MCF-7 or SK-BR3 cells. Skin.

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

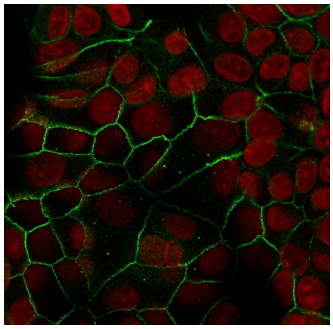
Product Images for Recombinant E-Cadherin (CDH1) / CD324 (Intercellular Junction Marker) Antibody



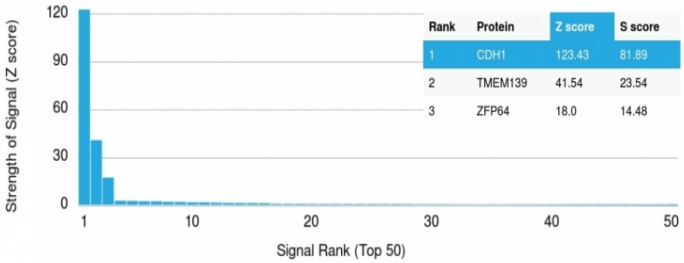
Western Blot Analysis of MCF-7 cell lysate using E-Cadherin Mouse Recombinant Monoclonal Antibody (rCDH1/1525).



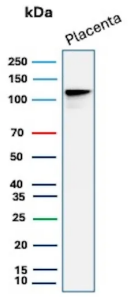
SDS-PAGE Analysis Purified E-Cadherin Mouse Recombinant Monoclonal (rCDH1/1525). Confirmation of Purity and Integrity of Antibody.



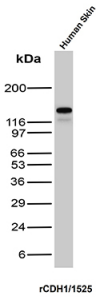
Immunofluorescence Analysis of MCF-7 cells labeling CHD1 with E-Cadherin Mouse Recombinant Monoclonal Antibody (rCDH1/1525) followed by goat anti-mouse IgG-CF488 (green). Nuclear counterstain is RedDot.



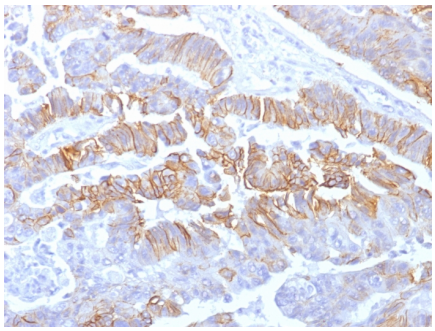
Analysis of Protein Array containing >19,000 full-length human proteins using E-Cadherin Recombinant Mouse Monoclonal Antibody (rCDH1/1525) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western Blot Analysis of human placenta tissue lysate using CDH1 Recombinant Mouse Monoclonal Antibody (rCDH1/1525).



Western Blot Analysis of human skin tissue lysate using CDH1 Recombinant Mouse Monoclonal Antibody (rCDH1/1525).



Formalin-fixed, paraffin-embedded human colon carcinoma stained with E-Cadherin Mouse Recombinant Monoclonal Antibody (rCDH1/1525).

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 produced in a 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.

Limitations and Warranty