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

Mouse Monoclonal Antibody [Clone rCDH1/6769]

Catalog No	Format	Size
999-MSM19-P0	Purified Ab with BSA and Azide	200ug/ml
999-MSM19-P1	Purified Ab with BSA and Azide	200ug/ml
999-MSM19-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

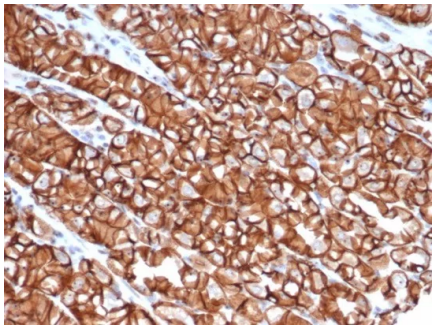
Applications	Tested Dillution
Immunohistochemistry (IHC)	1-2ug/ml

Product Details

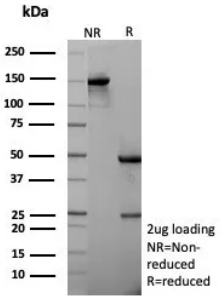
Clone	rCDH1/6769
Gene Name	CDH1
Immunogen	Recombinant fragment (around aa600-700) of human E-Cadherin (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	120-80kDa (Mature); 135kDa (Precursor)
Cellular Localization	Cell surface
Species Reactivity	Human
Positive Control	MCF-7 or SK-BR3 cells. Prostate or colon carcinomas.

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

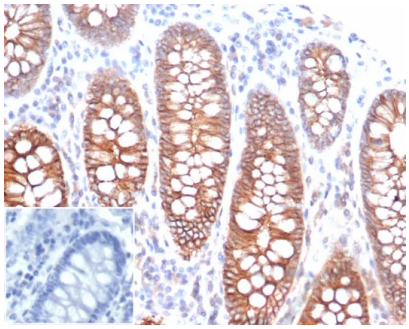
Product Images for Recombinant E-Cadherin (CDH1) / CD324 (Intercellular Junction Marker) Antibody



IHC analysis of formalin-fixed, paraffin-embedded human stomach. Stained using rCDH1/6769 at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified E-Cadherin Recombinant Mouse Monoclonal (rCDH1/6769). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human colon stained with E-CadherinRecombinant Mouse Monoclonal Antibody (rCDH1/6769). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

E-cadherin is a transmembrane, calcium dependent cell adhesion protein that mediates cell to cell adhesion and maintains structural and functional integrity of epithelial tissues. It also has pivotal barrier functions and maintains the polarity of epithelial cells. Reduced or aberrant E-cadherin expression breaks cell to cell contacts, and thus, cells acquire the ability to migrate. In normal tissues, immunostaining of E-cadherin is localized to the membrane of epithelial cells, consistent with its role in cell adhesion. And in tumor tissues, E-cadherin stains positively in glandular epithelium as well as adenocarcinomas of the lung, gastrointestinal tract, and ovary. It has also been shown to be positive in some thyroid carcinomas. A combination of E-cadherin and p120 catenin may help distinguish ductal carcinoma of the breast from lobular carcinoma. And also, several studies have reported that reduced E-cadherin expression is correlated with poor prognosis in several types of carcinomas.

Research Areas

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

Known Applications & Suggested Dilutions

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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&degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

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.

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.