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

Rabbit Monoclonal Antibody [Clone CDH1/4398R]

Catalog No	Format	Size
999-RBM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
999-RBM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
999-RBM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

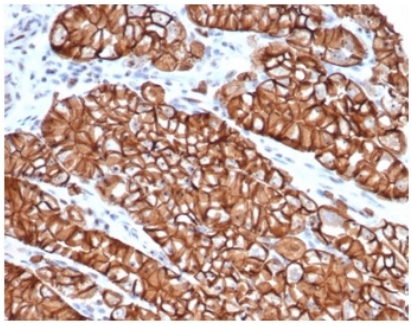
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

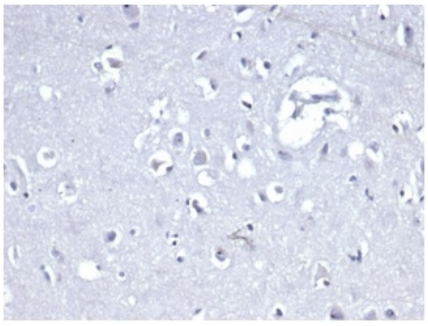
Clone	CDH1/4398R
Gene Name	CDH1
Immunogen	Synthetic peptide corresponding to E-Cadherin residues within aa600-700 of E-cadherin
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	120-80kDa (Mature); 135kDa (Precursor)
Cellular Localization	Adherens junction, Cell junction, Cell membrane, Endosome, Golgi apparatus, trans-Golgi network
Species Reactivity	Human
Positive Control	MCF-7 or SK-BR3 cells.Prostate or colon carcinomas.

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

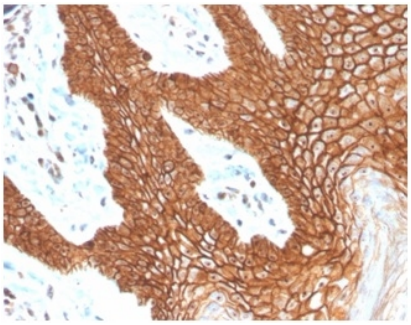
Product Images for Recombinant E-Cadherin (CDH1) / CD324 (Intercellular Junction Marker) Antibody



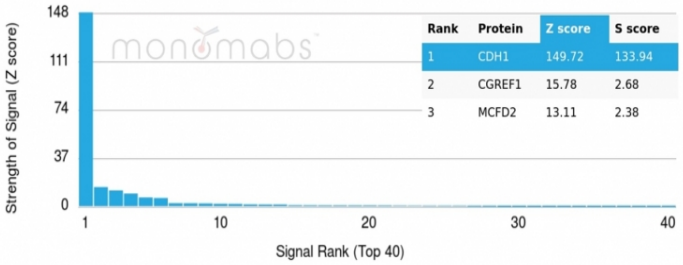
Formalin-fixed, paraffin-embedded human stomach stained with E-Cadherin Rabbit Recombinant Monoclonal Antibody (CDH1/4398R).



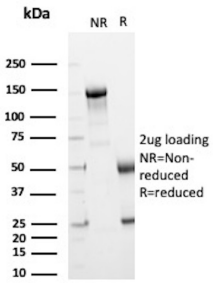
IHC analysis of formalin-fixed, paraffin-embedded human brain. Negative tissue control using CDH1/4398R at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



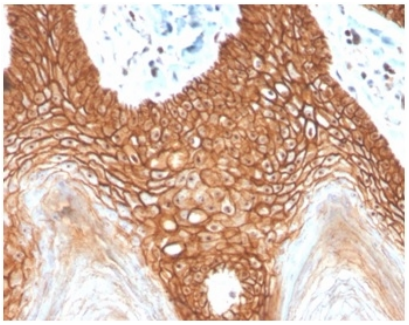
Formalin-fixed, paraffin-embedded human cervix stained with E-Cadherin Rabbit Recombinant Monoclonal Antibody (CDH1/4398R).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing E-Cadherin Rabbit Recombinant Monoclonal Antibody (CDH1/4398R). 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.



SDS-PAGE Analysis of Purified Cadherin-1 Recombinant Rabbit Monoclonal Antibody (CDH1/4398R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human cervix stained with E-Cadherin Rabbit RecombinantMonoclonal Antibody (CDH1/4398R).

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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% 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.