

### 36-3678: Anti-E-Cadherin (CDH1) / CD324 (Intercellular Junction Marker) Monoclonal Antibody (Clone: CDH1/1525)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	CDH1/1525
<b>Application :</b>	IHC, FACS, WB, IF
<b>Reactivity :</b>	Human
<b>Gene :</b>	CDH1
<b>Gene ID :</b>	999
<b>Uniprot ID :</b>	P12830
<b>Alternative Name :</b>	Arc 1; cadherin 1 type 1 E-cadherin; Cadherin1; CAM 120/80; CD324; CDH1; CDHE; E-Cad/CTF3; E-cadherin; ECAD; Epithelial cadherin; epithelial calcium dependent adhesion protein; Liver cell adhesion molecule (LCAM); Uvomorulin (UVO)
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant human E-Cadherin protein

#### Description

Recognizes a protein of 120-80kDa, identified as E-cadherin. Cadherins comprise a family of Ca<sup>2+</sup>-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 NH<sub>2</sub> 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.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/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.
<b>Storage condition :</b>	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.

#### Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); 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 °C followed by cooling at RT for 20 minutes),

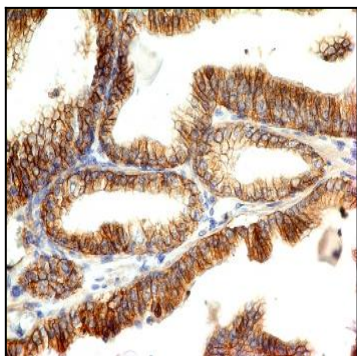


Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with E-Cadherin Monoclonal Antibody (CDH1/1525).

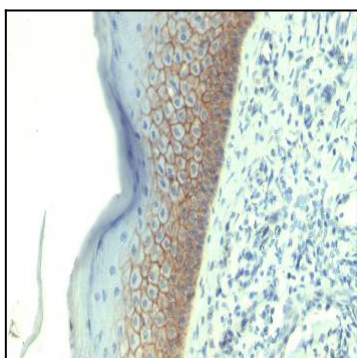


Fig. 2: Formalin-fixed, paraffin-embedded human Skin stained with E-Cadherin Monoclonal Antibody (CDH1/1525).

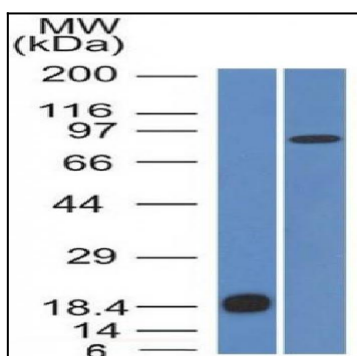


Fig. 3: Western Blot Analysis (A) Recombinant Protein (B) human Stomach lysate Using E-Cadherin Monoclonal Antibody (CDH1/1525).

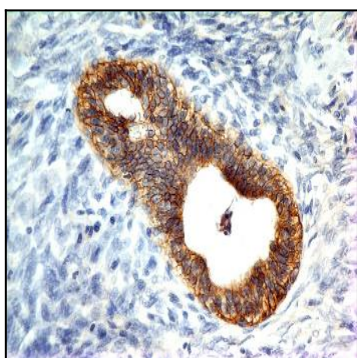


Fig. 4: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with E-Cadherin MAb (CDH1/1525).



Fig. 5: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with E-Cadherin MAb (CDH1/1525).

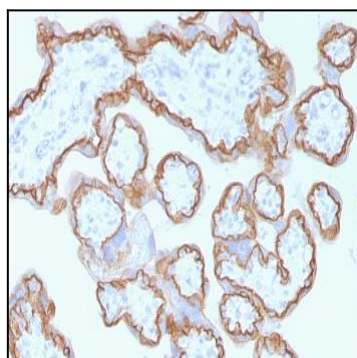


Fig. 6: Formalin-fixed, paraffin-embedded human Placenta stained with E-Cadherin MAb (CDH1/1525).

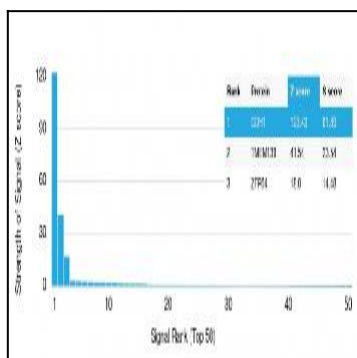


Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using E-Cadherin (CDH1) Mouse Monoclonal Antibody (CDH1/1525). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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.