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

Clonality :	Monoclonal
Clone Name :	CDH1/1525
Application :	IHC,FACS,WB,IF
Reactivity :	Human
Gene :	CDH1
Gene ID :	999
Uniprot ID :	P12830
Alternative Name :	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)
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant human E-Cadherin protein

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	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.
Storage condition :	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),

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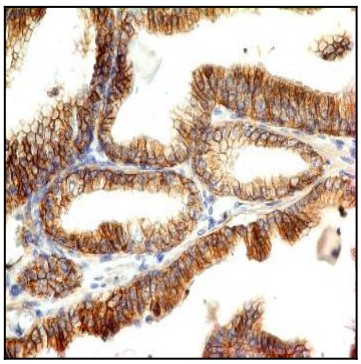


Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with E-Cadherin Monoclonal Antibody (CDH1/1525).

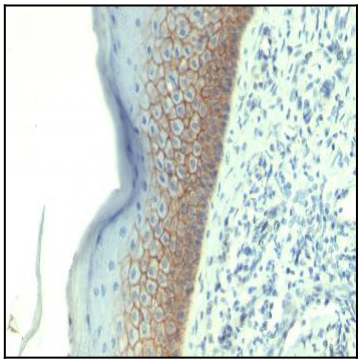


Fig. 2: Formalin-fixed, paraffin-embedded human Skin stained with E-Cadherin Monoclonal Antibody (CDH1/1525).

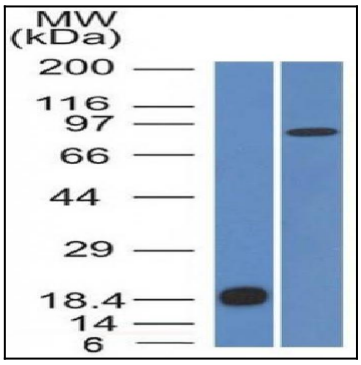


Fig. 3: Western Blot Analysis (A) Recombinant Protein (B) human Stomach lysate Using E-Cadherin Monoclonal Antibody (CDH1/1525).

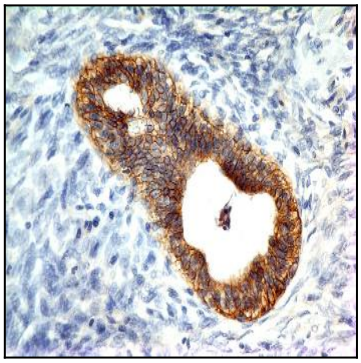


Fig. 4: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with E-Cadherin MAb (CDH1/1525).

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

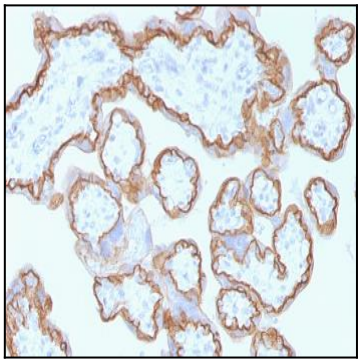


Fig. 6: Formalin-fixed, paraffin-embedded human Placenta stained with E-Cadherin MAb (CDH1/1525).

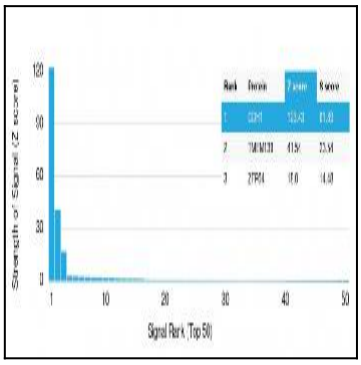


Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using E-Cadherin (CDH1) Mouse Monoclonal Antibody (CDH1/1525). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG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

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