

Mouse anti-Human E-Cadherin (CDH1)/CD324 Monoclonal Antibody | anti-CDH1 antibody

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

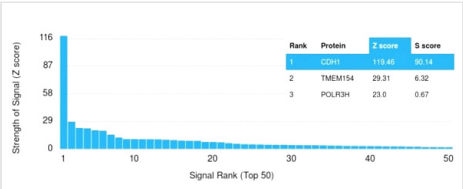
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215321	Mouse	Human	Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

E-Cadherin (CDH1)/CD324; Monoclonal Antibody; E-Cadherin (CDH1)/CD324 (Intercellular Junction Marker); Arc 1; cadherin 1 type 1 E-cadherin; Cadherin1; CAM 120/80; CDHE; E-Cad/CTF3; E-cadherin; ECAD; Epithelial cadherin; epithelial calcium dependent adhesion protein; Liver cell adhesion molecule (LCAM); Uvomorulin (UVO); anti-CDH1 antibody

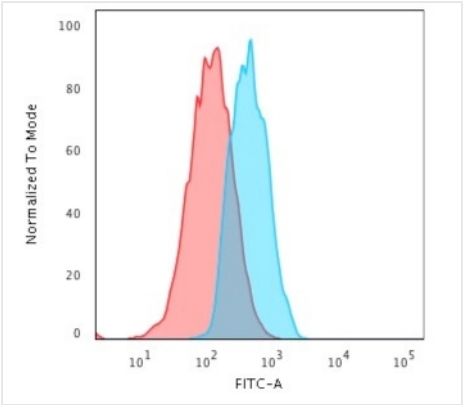
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CDH1/3256
Specificity	Recognizes a protein of 120-80kDa, identified as E-cadherin. Cadherins comprise a family of Ca ²⁺ -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 mesothelioma.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	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.
Sequence Length	882
Applicable Applications for anti-CDH1 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Positive Control	MCF-7, LS174T, Raji, HT29 or SK-BR3 cells. Prostate or Colon carcinomas.
Immunogen	Recombinant fragment of human CDH1 protein (around aa 567-691) (exact sequence is proprietary)
Cellular Localization	Cell Surface
Hu-chromosome Location	16q22.1
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



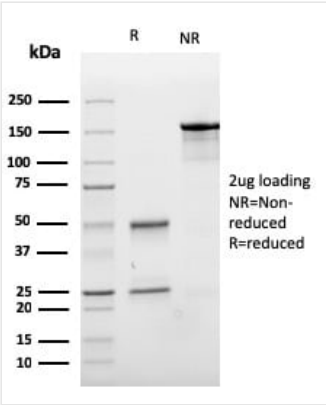
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using E-Cadherin Mouse Monoclonal Antibody (CDH1/3256) 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.



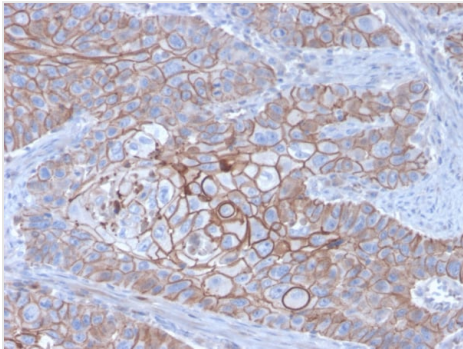
FCM/FACS (Flow Cytometry)

Flow Cytometric Analysis of human trypsinized MCF-7 cells using E-Cadherin Mouse Monoclonal Antibody (CDH1/3256) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red)



SDS-PAGE

SDS-PAGE Analysis Purified E-Cadherin Mouse Monoclonal Antibody (CDH1/3256). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with E-Cadherin Mouse Monoclonal Antibody (CDH1/3256).

ADDITIONAL INFORMATION

References	1. Jaggi M. et al. Cancer Res. 2005, 65: 483-492. 2. Rios-Doria, J et al. J. Biol. Chem 2003; 278: 372-1379.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4757960
NCBI GeneID	999
NCBI Accession #	NP_004351.1
NCBI GenBank Nucleotide #	NP_004351.1
UniProt Accession #	P12830
Molecular Weight	120-80kDa (Mature); 135kDa (Precursor)
NCBI Official Full Name	cadherin-1 isoform 1 preproprotein
NCBI Official Synonym Full Names	cadherin 1
NCBI Official Symbol	CDH1
NCBI Official Synonym Symbols	UVO; CDHE; ECAD; LCAM; Arc-1; BCDS1; CD324

NCBI Protein Information	cadherin-1
UniProt Protein Name	Cadherin-1
UniProt Gene Name	CDH1
UniProt Synonym Gene Names	CDHE; UVO; E-cadherin
UniProt Entry Name	CADH1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/e-cadherin-cdh1-cd324-antibody-clone-cdh1-3256-immunohistochemistry-flow-cytometry-elisa/215321>