

36-3677: Anti-E-Cadherin (CDH1) / CD324 (Intercellular Junction Marker) Monoclonal Antibody(Clone: 4A2)

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| Clonality : | Monoclonal |
| Clone Name : | 4A2 |
| 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

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| 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),

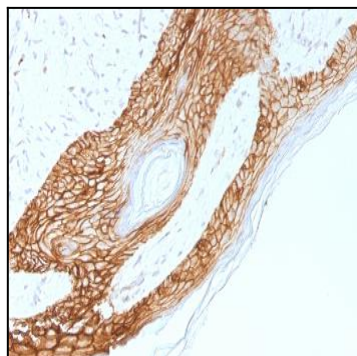


Fig. 1: Formalin-fixed, paraffin-embedded human Skin stained with E-Cadherin Mouse Monoclonal Antibody (4A2).

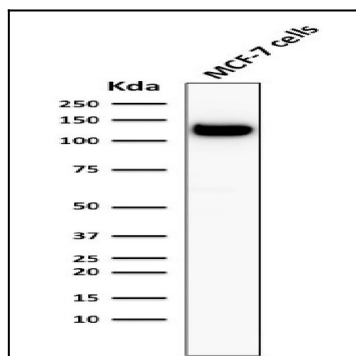


Fig. 2: Western Blot Analysis of MCF-7 cell lysate using E-Cadherin Mouse Monoclonal Antibody (4A2).

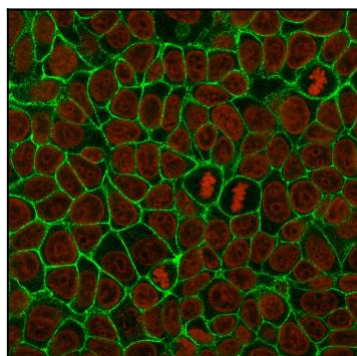


Fig. 3: Immunofluorescence Analysis of MCF-7 cells labeling E-Cadherin with E-Cadherin Mouse Monoclonal Antibody (4A2) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)

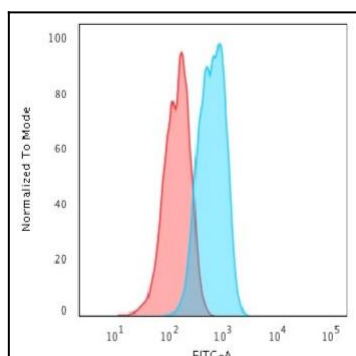


Fig. 4: Flow Cytometric Analysis of human trypsinized MCF-7 cells using E-Cadherin Mouse Monoclonal Antibody (4A2) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).

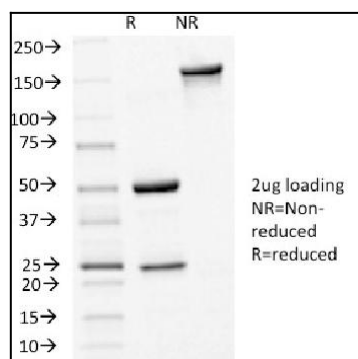


Fig. 5: SDS-PAGE Analysis Purified E-Cadherin Mouse Monoclonal Antibody (4A2).
Confirmation of Integrity and Purity of Antibody.