



CDH1 Mouse Monoclonal Antibody

E10-30121

Background: E-Cadherin is a 120 kDa transmembrane glycoprotein that is localized in the adherens junctions of epithelial cells. There, it interacts with the cytoskeleton through the associated cytoplasmic catenin proteins. In addition to being a calcium-dependent adhesion molecule, E-Cadherin is also a critical regulator of epithelial junction formation. Its association with catenins is necessary for cell-cell adhesion. These E-cadherin/catenin complexes associate with corical actin bundles at both the zonula adherens and the lateral adhesion plaques. Tyrosine phosphorylation can disrupt these complexes, leading to changes in cell adhesion properties. E-Cadherin expression is often down-regulated in highly invasive, poorly differentiated carcinomas. Increased expression of E-Cadherin in these cells reduces invasiveness. Thus, loss of expression or function of E-Cadherin appears to be an important step in tumorigenic progression. Tissue specificity: Non-neural epithelial tissues.

Catalog Number: E10-30121

Amount: 100µg/100µl

Clone Number: 7H12

Species: Mouse IgG1

MW: 135kDa

Aliases: UVO; CDHE; ECAD; LCAM; Arc-1; CD324; CDH1

Entrez Gene: 999

Immunogen: Purified recombinant fragment of human CDH1 expressed in E. Coli.

Storage: Store at 4°C, for long term storage, store at -20°C.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human; Mouse; Monkey

Tested Applications: WB, IHC, FC, ELISA. Not yet tested in other applications.

Application notes: WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, FC: 1/200-1/400, ELISA: Propose dilution 1/10000.

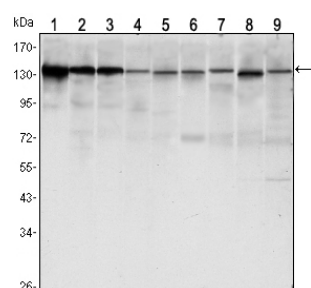


Figure 1: Western blot analysis using CDH1 mouse mAb against LNCAP (1), A431 (2), DU145 (3), PC-3 (4), MCF-7 (5), PC-12 (6), NIH/3T3 (7), C6 (8) and COS7 (9) cell lysate.

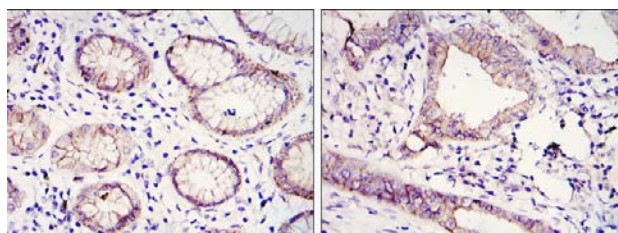


Figure 2: Immunohistochemical analysis of paraffin-embedded gastric cancer tissues (left) and lung cancer tissues (right) using CDH1 mouse mAb with DAB staining.

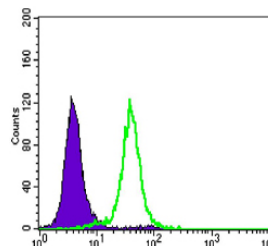


Figure 3: Flow cytometric analysis of HeLa cells using CDH1 mouse mAb (green) and negative control (purple).

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