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**Product Name: CDH1 Mouse Monoclonal Antibody****Catalog #: AMM80908**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ELISA,FC
<b>Reactivity</b>	Human,Mouse,Monkey
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	135kDa

**Antigen Information**

<b>Gene Name</b>	CDH1
<b>Alternative Names</b>	UVO; CDHE; ECAD; LCAM; Arc-1; CD324; CDH1; E-cadherin; E cadherin
<b>Gene ID</b>	999.0
<b>SwissProt ID</b>	P12830
<b>Immunogen</b>	Purified recombinant fragment of human CDH1 expressed in E. Coli.

**Background**

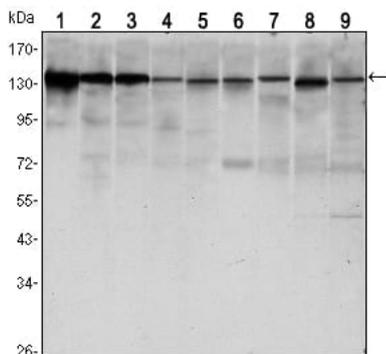
E-Cadherin is a 120 kDa transmembrane glycoprotein that is localized in the adherens junctions of epithelial cells. There, it interacts with the cytoskeleton through the associated cytoplasmic catenin proteins. In addition to being a calcium-dependent adhesion molecule, E-Cadherin is also a critical regulator of epithelial junction formation. Its association with catenins is

necessary for cell-cell adhesion. These E-cadherin/catenin complexes associate with cortical 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.

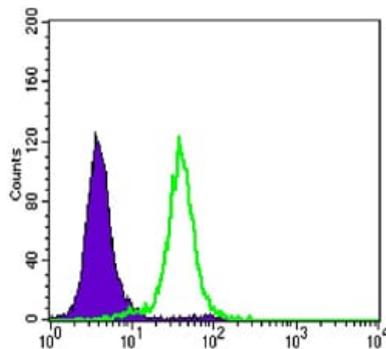
## Research Area

TGF-beta signaling pathway

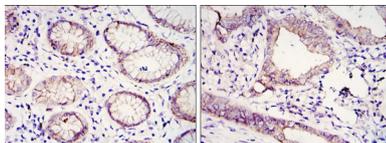
## Image Data



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.



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



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