

Datasheet for ABIN969036
anti-E-cadherin antibody



[Go to Product page](#)

3 Images

3 Publications

Overview

Quantity:	100 µL
Target:	E-cadherin (CDH1)
Reactivity:	Human, Mouse, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This E-cadherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), ELISA

Product Details

Purpose:	CDH1 Antibody
Immunogen:	Purified recombinant fragment of human CDH1 expressed in E. Coli.
Clone:	7H12
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	E-cadherin (CDH1)
Alternative Name:	CDH1 (CDH1 Products)
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

Target Details

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.

Molecular Weight: 135 kDa

Gene ID: 999

UniProt: [P12830](#)

Pathways: [WNT Signaling](#), [Sensory Perception of Sound](#), [Cell-Cell Junction Organization](#), [Tube Formation](#)

Application Details

Application Notes: ELISA: 1/10000
FCM: 1/200 - 1/400

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Publications

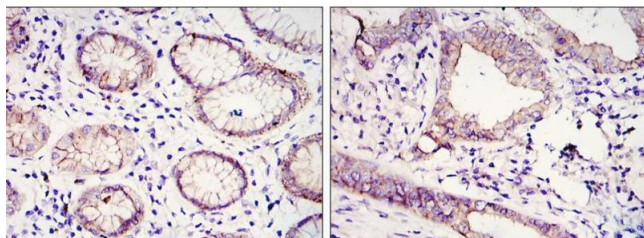
Product cited in: Schietke, Warnecke, Wacker, Schödel, Mole, Campean, Amann, Goppelt-Struebe, Behrens, Eckardt, Wiesener: "The lysyl oxidases LOX and LOXL2 are necessary and sufficient to repress

E-cadherin in hypoxia: insights into cellular transformation processes mediated by HIF-1." in: **The Journal of biological chemistry**, Vol. 285, Issue 9, pp. 6658-69, (2010) ([PubMed](#)).

Barrett, Lee, Lees, Prescott, Anderson, Phillips, Wesley, Parnell, Zhang, Drummond, Nimmo, Massey, Blaszczyk, Elliott, Cotterill, Dallal, Lobo, Mowat, Sanderson, Jewell, Newman, Edwards, Ahmad et al.: "Genome-wide association study of ulcerative colitis identifies three new susceptibility loci, including the HNF4A region. ..." in: **Nature genetics**, Vol. 41, Issue 12, pp. 1330-4, (2009) ([PubMed](#)).

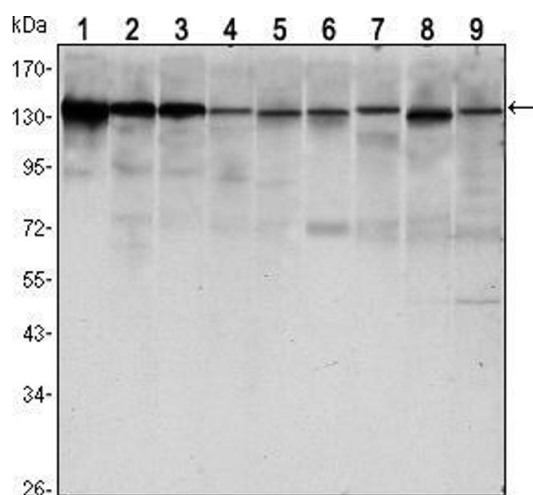
Wang, Yao, Zhang, Zhang, Zhao: "[Expression and significance of CD147 and E-cadherin in human gastric carcinoma]." in: **Zhonghua zhong liu za zhi [Chinese journal of oncology]**, Vol. 31, Issue 7, pp. 515-9, (2009) ([PubMed](#)).

Images



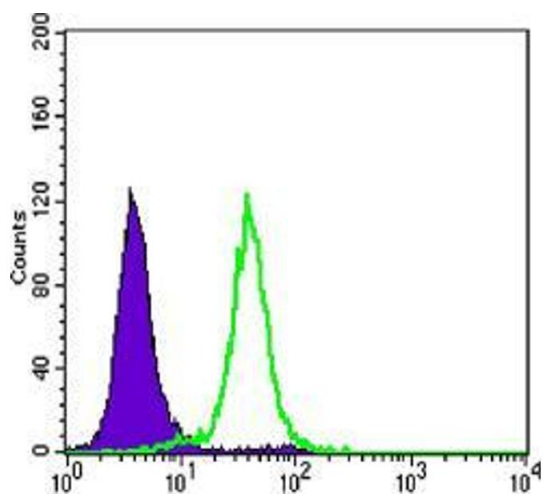
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded gastric cancer tissues (left) and lung cancer tissues (right) using CDH1 mouse mAb with DAB staining.



Western Blotting

Image 2. 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 Cytometry

Image 3. Flow cytometric analysis of Hela cells using CDH1 mouse mAb (green) and negative control (purple).