

Datasheet for ABIN967801
anti-E-cadherin antibody (C-Term)

5 Images

4 Publications

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Overview

| | |
|----------------------|--|
| Quantity: | 150 µg |
| Target: | E-cadherin (CDH1) |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse, Rat, Dog |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This E-cadherin antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP) |

Product Details

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|-------------------|---|
| Immunogen: | Human E-Cadherin C-terminal Recombinant Protein |
| Clone: | 36-E |
| Isotype: | IgG2a kappa |
| Cross-Reactivity: | Dog (Canine), Mouse (Murine), Rat (Rattus) |
| Characteristics: | <ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States. |

Product Details

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| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. |
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Target Details

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| Target: | E-cadherin (CDH1) |
| Alternative Name: | E-Cadherin (CDH1 Products) |
| Background: | <p>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. The 36/E-Cadherin monoclonal antibody recognizes the cytoplasmic domain of E-Cadherin, regardless of phosphorylation status. The peptide immunogen was generated from human E-Cadherin aa. 735-883.</p> <p>Synonyms: CD324, CDH1, CADH1, Cadherin-1, ECAD, CDHE, Arc-1, LCAM, UVO, Uvomorulin</p> |
| Molecular Weight: | 120 kDa |
| Pathways: | WNT Signaling , Sensory Perception of Sound , Cell-Cell Junction Organization , Tube Formation |

Application Details

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| Comment: | Related Products: ABIN968533, ABIN967389 |
| Restrictions: | For Research Use only |

Handling

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|----------------|---|
| Format: | Liquid |
| Concentration: | 250 µg/mL |
| Buffer: | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide. |
| Preservative: | Sodium azide |

Handling

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| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
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| Storage: | -20 °C |
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| Storage Comment: | Store undiluted at -20°C. |
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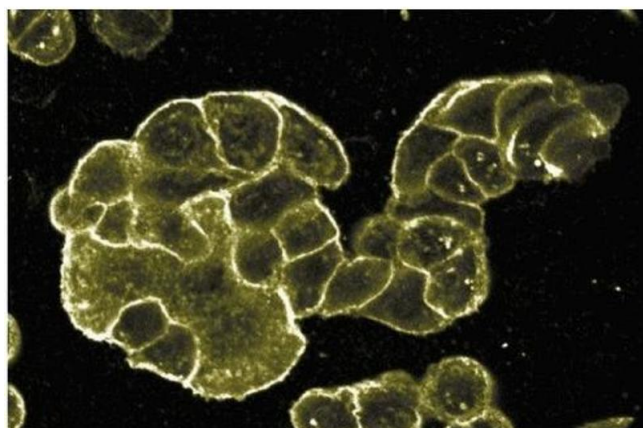
Publications

Product cited in: Weng, Xin, Pablo, Grueneberg, Hagel, Bain, Müller, Papkoff: "Protection against anoikis and down-regulation of cadherin expression by a regulatable beta-catenin protein." in: **The Journal of biological chemistry**, Vol. 277, Issue 21, pp. 18677-86, (2002) ([PubMed](#)).

Miyoshi, Shillingford, Smith, Grimm, Wagner, Oka, Rosen, Robinson, Hennighausen: "Signal transducer and activator of transcription (Stat) 5 controls the proliferation and differentiation of mammary alveolar epithelium." in: **The Journal of cell biology**, Vol. 155, Issue 4, pp. 531-42, (2001) ([PubMed](#)).

Sheibani, Sorenson, Frazier: "Differential modulation of cadherin-mediated cell-cell adhesion by platelet endothelial cell adhesion molecule-1 isoforms through activation of extracellular regulated kinases." in: **Molecular biology of the cell**, Vol. 11, Issue 8, pp. 2793-802, (2000) ([PubMed](#)).

Jaksits, Kriehuber, Charbonnier, Rappersberger, Stingl, Maurer: "CD34+ cell-derived CD14+ precursor cells develop into Langerhans cells in a TGF-beta 1-dependent manner." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 163, Issue 9, pp. 4869-77, (1999) ([PubMed](#)).



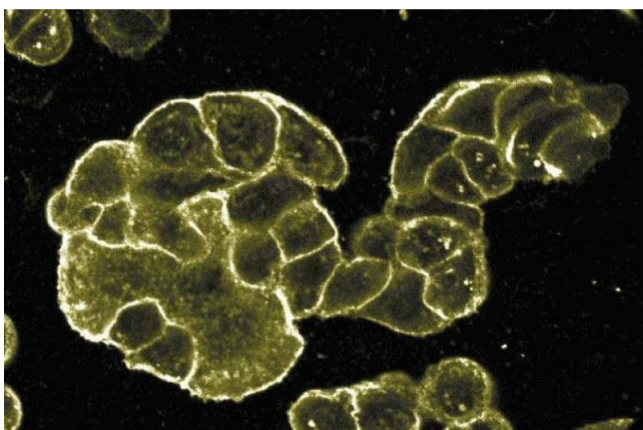
Immunohistochemistry

Image 1.



Western Blotting

Image 2. Western blot analysis of E-Cadherin on A431 lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of E-Cadherin.



Immunofluorescence

Image 3. Immunofluorescent staining on WIDR cells at 1:50 dilution of E-Cadherin.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN967801.