Datasheet for ABIN967800

anti-E-cadherin antibody (C-Term)

2 Images | 8 Publications

Go to Product page

Overview

Quantity:	50 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

Immunogen:	Human E-Cadherin C-terminal Recombinant Protein
Clone:	36-E
Isotype:	IgG2a kappa
Cross-Reactivity:	Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	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

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

Target Details

Target:	E-cadherin (CDH1)
Alternative Name:	E-Cadherin (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 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. Synonyms: CD324, CDH1, CADH1, Cadherin-1, ECAD, CDHE, Arc-1, LCAM, UVO, Uvomorulin
Molecular Weight:	120 kDa
Pathways:	WNT Signaling, Sensory Perception of Sound, Cell-Cell Junction Organization, Tube Formation

Application Details

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

Handling

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

Handling

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

Publications

Product cited in:

Chua, Nivison-Smith, Fletcher, Trenholm, Awatramani, Kalloniatis: "Early remodeling of Müller cells in the rd/rd mouse model of retinal dystrophy." in: **The Journal of comparative neurology**, Vol. 521, Issue 11, pp. 2439-53, (2014) (PubMed).

Burns, Collado, Oliver, Corwin: "Specializations of intercellular junctions are associated with the presence and absence of hair cell regeneration in ears from six vertebrate classes." in: **The Journal of comparative neurology**, Vol. 521, Issue 6, pp. 1430-48, (2013) (PubMed).

Brusés: "N-cadherin regulates primary motor axon growth and branching during zebrafish embryonic development." in: **The Journal of comparative neurology**, Vol. 519, Issue 9, pp. 1797-815, (2012) (PubMed).

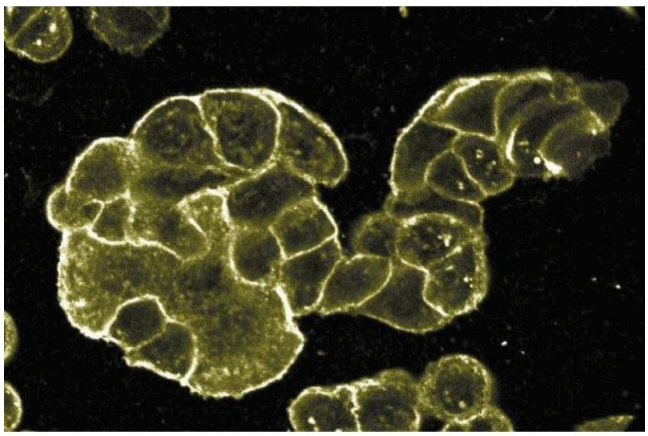
Akins, Benson, Greer: "Cadherin expression in the developing mouse olfactory system." in: **The Journal of comparative neurology**, Vol. 501, Issue 4, pp. 483-97, (2007) (PubMed).

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).

There are more publications referencing this product on: Product page

Western Blotting

Image 1. 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 2. Immunofluorescent staining of WIDR cells at 1:50 dilution of E-cadherin.