Datasheet for ABIN967948

anti-E-cadherin antibody (AA 735-883)

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Overview

Quantity:	50 µg
Target:	E-cadherin (CDH1)
Binding Specificity:	AA 735-883
Reactivity:	Human, 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 aa. 735-883
Clone:	34-E
Isotype:	IgG2b
Cross-Reactivity:	Dog (Canine), 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 120kDa 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 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. This antibody is routinely tested by western blot analysis.
Molecular Weight:	120 kDa
Pathways:	WNT Signaling, Sensory Perception of Sound, Cell-Cell Junction Organization, Tube Formation

Application Details

Comment:	Related Products: ABIN967389, ABIN968533
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
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Zundel, Swiersz, Giaccia: "Caveolin 1-mediated regulation of receptor tyrosine kinase-associated phosphatidylinositol 3-kinase activity by ceramide." in: **Molecular and cellular biology**, Vol. 20, Issue 5, pp. 1507-14, (2000) (PubMed).

Huan, van Adelsberg: "Polycystin-1, the PKD1 gene product, is in a complex containing E-cadherin and the catenins." in: **The Journal of clinical investigation**, Vol. 104, Issue 10, pp. 1459-68, (1999) (PubMed).

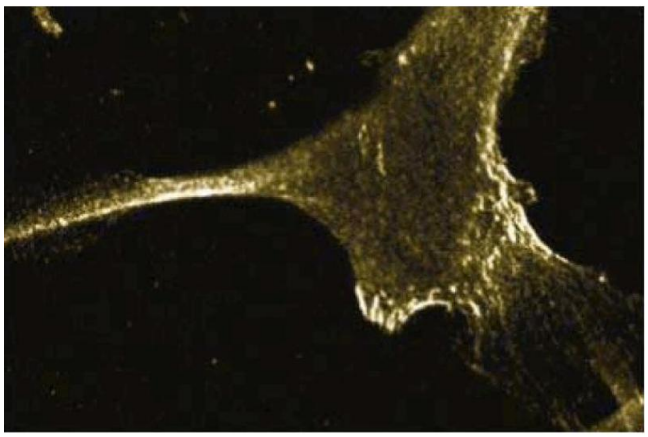
Chitaev, Troyanovsky: "Adhesive but not lateral E-cadherin complexes require calcium and catenins for their formation." in: **The Journal of cell biology**, Vol. 142, Issue 3, pp. 837-46, (1998) (PubMed).

Behrens, Vakaet, Friis, Winterhager, Van Roy, Mareel, Birchmeier et al.: "Loss of epithelial differentiation and gain of invasiveness correlates with tyrosine phosphorylation of the E-cadherin/beta-catenin complex in cells transformed with a temperature-sensitive v-SRC ..." in: **The Journal of cell biology**, Vol. 120, Issue 3, pp. 757-66, (1993) (PubMed).

Images

Western Blotting

Image 1. Western blot analysis of E-Cadherin on A431 cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-E-Cadherin.



Immunofluorescence

Image 2. Immunofluorescent staining of Human Fibroblasts with anti-E-Cadherin antibody.