Datasheet for ABIN6941296

anti-E-cadherin antibody

2 Images

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Overview

Quantity:	100 µg
Target:	E-cadherin (CDH1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This E-cadherin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM), Immunostaining (ISt)

Product Details

Immunogen:	Recombinant human E-Cadherin protein
Clone:	SPM381
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 120-80 kDa, identified as E-cadherin. Cadherins comprise a family of Ca2+-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. The classical cadherins, E-, N- and P-cadherin, consist of large extracellular domains characterized by a series of five homologous NH2 terminal repeats. The relatively short intracellular domains interact with a variety of cytoplasmic proteins, such as -catenin, to regulate cadherin function. E-cadherin plays an important role in epithelial cell adhesion. A decreased expression of E-cadherin is associated with metastatic potential and poor prognosis in breast cancer, prostate and esophageal cancer. In combination with p120 Catenin, it is useful for the differentiation between ductal (E-cadherin

Product Details

	+) and lobular (E-cadherin -) breast carcinomas. It may also help in diagnosis of mesothelioma.
Purification:	Purified by Protein A/G

Target Details

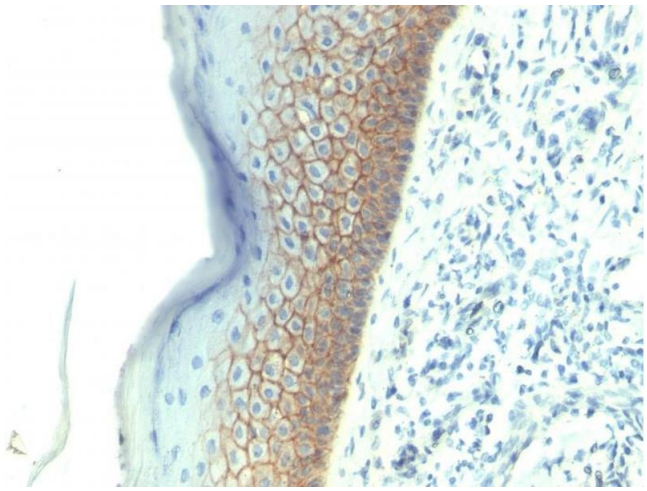
Target:	E-cadherin (CDH1)
Alternative Name:	CDH1 (CDH1 Products)
Molecular Weight:	120-80kDa (Mature), 135kDa (Precursor)
Gene ID:	999
UniProt:	P12830
Pathways:	WNT Signaling, Sensory Perception of Sound, Cell-Cell Junction Organization, Tube Formation

Application Details

Application Notes:	Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Prostate or Colon carcinomas. Known Application: Immunofluoresence (2-4 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

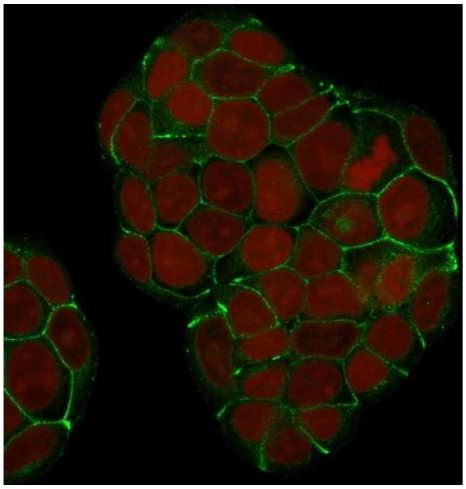
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % 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,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded human Skin stained with E-Cadherin Monoclonal Antibody (SPM381).



Immunofluorescence

Image 2. Confocal Immunofluorescence of MCF-7 cells E-Cadherin Monoclonal Antibody (SPM381) labeled with CF488 (Green); Reddot is used to label the nuclei.