Datasheet for ABIN7317965

E-cadherin Protein (Fc Tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	E-cadherin (CDH1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This E-cadherin protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human E-Cadherin/CDH1 Protein (Fc Tag)(Active)
Sequence:	Met 1-Ile707
Characteristics:	A DNA sequence encoding the human E-Cad (P12830)(Met1-Ile707) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of MCF-7 human breast adenocarcinoma cells.When cells are added to E-Cad coated plates (5 µg/mL, 100 µL/well), approximately 33% will adhere specifically after 90 minutes at 37 °C.

Target Details

Target:	E-cadherin (CDH1)

Target Details

Alternative Name:	E-Cadherin/CDH1 (CDH1 Products)
Background:	Background: Cadherins are calcium-dependent cell adhesion proteins which preferentially interact with themselves in a homophilic manner in connecting cells, and thus may contribute to the sorting of heterogeneous cell type. E-cadherin (E-Cad), also known as CDH1 and CD324, is a calcium-dependent cell adhesion molecule the intact function of which is crucial for the establishment and maintenance of epithelial tissue polarity and structural integrity. Mutations in CDH1 occur in diffuse type gastric cancer, lobular breast cancer, and endometrial cancer. In human cancers, partial or complete loss of E-cadherin expression correlates with malignancy. During apoptosis or with calcium influx, E-Cad is cleaved by the metalloproteinase to produce fragments of about 38 kDa (E-CAD/CTF1), 33 kDa (E-CAD/CTF2) and 29 kDa (E-CAD/CTF3), respectively. E-Cad has been identified as a potent invasive suppressor, as downregulation of E-cadherin expression is involved in dysfunction of the cell-cell adhesion system, and often correlates with strong invasive potential and poor prognosis of human carcinomas. Synonym: Cadherin-1, CDH1,CAM 120/80,E-cadherin, CD324,CDHE,E-cad,E-Cadherin,ECAD,LCAM,UVO,Arc-1
Molecular Weight:	87.1 kDa
UniProt:	P12830
Pathways:	WNT Signaling, Sensory Perception of Sound, Cell-Cell Junction Organization, Tube Formation

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.