

Datasheet for ABIN7535470 E-cadherin Protein (His tag)



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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 His tag.

Product Details

Purpose:	Active Recombinant Human CDH1/E-Cadherin/CD324 Protein
Sequence:	DWVIPPISCP ENKGPFPKN LVQIKSNKDK EGKVFYSITG QGADTPPVG V FIIERETGWL KVTEPLDRER IATYTLFSHA VSSNGNAVED PMEILITVTD QNDNKPEFTQ EVFKGSVMEG ALPGTSVMEV TATDADDDVN TYNAAIAYTI LSQDPELPDK NMFTINRNTG VISVTTGLD RESFPTYTLV VQAADLQEGE LSTTATAVIT VTDTNDNPPI FNPTTYKGQV PENEANVVIT TLKVTDADAP NTPAWEAVYT ILNDDGGQFV VTTNPVNNDG ILKTAKGLDF EAKQQYILHV AVTNVVPFEV SLTTSTATVT VDVLDVNEAP IFVPPEKRVE VSEDFGVGQE ITSYTAQEPD TFMEQKITYR IWRDTANWLE INPDTGAIST RAELDREDFE HVKNSTYTAL IIATDNGSPV ATGTGTLILLI LSDVNDNAPI PEPRTIFFCE RNPKPQVINI IDADLPPNTS PFTAELTHGA SANWTIQYND PTQESIILKP KMALEVGDYK INLKLMDNQN KDQVTTLEVS VCDCEGAAGV CRKAQPVEAG LQIPA
Specificity:	Asp155-Ala709
Purity:	> 95 % by SDS-PAGE.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Human CDH1 at 1 µg/mL (100 µL/well) can bind Human CTNNB1 with a linear range of 0.1-0.78 µg/mL.2.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), >12 % will adhere specifically after 90 minutes at 37 °C.

Target Details

Target:	E-cadherin (CDH1)
Alternative Name:	CDH1/E-Cadherin/CD324 (CDH1 Products)
Background:	<p>Description: 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.</p> <p>Name: Arc-1,CD324,CDHE,ECAD,LCAM,UVO,CDH1,E-Cadherin, Arc-1, CD324, CDHE, ECAD, LCAM, UVO, cadherin-1,E Cadherin</p>
Gene ID:	999
UniProt:	P12830
Pathways:	WNT Signaling , Sensory Perception of Sound , Cell-Cell Junction Organization , Tube Formation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.