



[Go to Product page](#)

Datasheet for ABIN7320196
E-cadherin Protein (His tag)

1 Image

Overview

Quantity:	100 µg
Target:	E-cadherin (CDH1)
Origin:	Mouse
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:	Recombinant Mouse E-Cadherin/CDH1 Protein (His Tag)(Active)
Sequence:	Met 1-Val 709
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CDH1 (P09803) (Met 1-Val 709) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein 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 5 x 10E4 cells/well are added to Recombinant Mouse Cadherin-1 coated plates (0.8 µg/mL with 100 µL/well), approximately >50% will adhere after 1 hour at 37°C.

Target Details

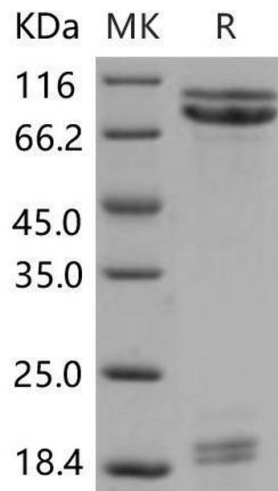
Target:	E-cadherin (CDH1)
Alternative Name:	E-Cadherin/CDH1 (CDH1 Products)
Background:	<p>Background: Cadherins are calcium-dependent cell adhesion proteins which preferentially interact with themselves in a homophilic manner in connecting cells, and thus may contribute to the sorting of heterogeneous 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.</p> <p>Synonym: AA960649,ARC-1,E-cad,Ecad,L-CAM,Um,UVO</p>
Molecular Weight:	78 kDa
UniProt:	P09803
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.



Western Blotting

Image 1.