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Datasheet for ABIN2444102

## E-cadherin Protein (AA 23-621) (Fc Tag)

1 Image

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### Overview

Quantity:	100 µg
Target:	E-cadherin (CDH1)
Protein Characteristics:	AA 23-621
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

Sequence:	AA 23-621
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 92.4 kDa. As a result of different glycosylation, the protein migrates as 110-125 kDa Cadherin, a 48 kDa Propeptide under reducing (R) condition, and 200-250 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

### Target Details

Target:	E-cadherin (CDH1)
Alternative Name:	E-Cadherin ( <a href="#">CDH1 Products</a> )

## Target Details

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**Background:** Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells, cadherins may thus contribute to the sorting of heterogeneous cell types. Cadherin-1 (CDH1) is also known as epithelial cadherin (E-cadherin), CD\_antigen (CD324), Uvomorulin (UVO) ECAD and CDHE, CDH1 / CD324 contains 5 cadherin domains. CDH1 / CD324 / ECAD is expressed in non-neural epithelial tissues. CDH1 / E-CAD is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells and has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7. E-Cad promotes non-amyloidogenic degradation of Abeta precursors and has a strong inhibitory effect on APP C99 and C83 production. Defects in CDH1 / CD324 / ECAD are the cause of hereditary diffuse gastric cancer (HDGC).

**Molecular Weight:** 92.3 kDa

**Pathways:** [WNT Signaling](#), [Sensory Perception of Sound](#), [Cell-Cell Junction Organization](#), [Tube Formation](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Buffer:** 50 mM Tris, 100 mM Glycine, pH 7.5

**Handling Advice:** Please avoid repeated freeze-thaw cycles.

**Storage:** -20 °C

**Storage Comment:** Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

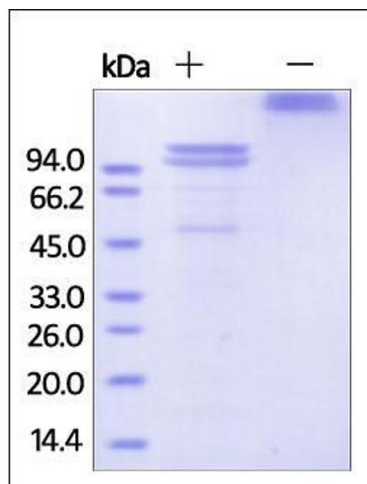
## Publications

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**Product cited in:** Eshghi, Gaultney, England, Brûlé, Miras, Sato, Coburn, Bellalou, Moriarty, Haouz, Picardeau: "An extracellular *Leptospira interrogans* leucine-rich repeat protein binds human E- and VE-cadherins." in: **Cellular microbiology**, Vol. 21, Issue 2, pp. e12949, (2019) ([PubMed](#)).

Campbell, Salvi, OBrien, Superfine, DeMali: "PAK2 links cell survival to mechanotransduction and metabolism." in: **The Journal of cell biology**, Vol. 218, Issue 6, pp. 1958-1971, (2019) ([PubMed](#)).

Suffoletto, Jetta, Hua: "E-cadherin mediated lateral interactions between neighbor cells necessary for collective migration." in: **Journal of biomechanics**, Vol. 71, pp. 159-166, (2019) ([PubMed](#)).



#### SDS-PAGE

**Image 1.** The purity of rhECAD Fc Chimera was determined by SDS-PAGE of reduced (R) and non-reduced (NR) rhECAD Fc Chimera and staining overnight with Coomassie Blue.