

## anti-Mouse E Cadherin Antibody | anti-Cdh1 antibody

Anti-E Cadherin [56-4]

|                              |                            |                              |
|------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA72402</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------------|------------------------------|

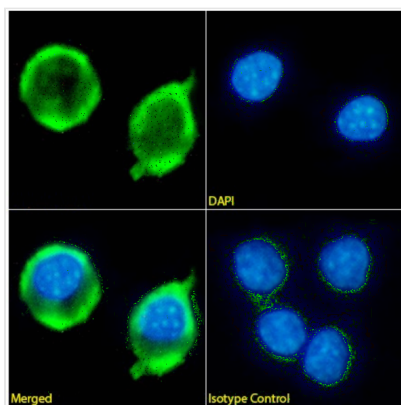
### PRODUCT SYNONYMS

E Cadherin; Anti-E Cadherin [56-4]; CD324; ARC-1; Cdh1; Cadherin-1; Cadherin E; E-Cadherin; Uvomorulin; anti-Cdh1 antibody

### PRODUCT SPECIFICATIONS

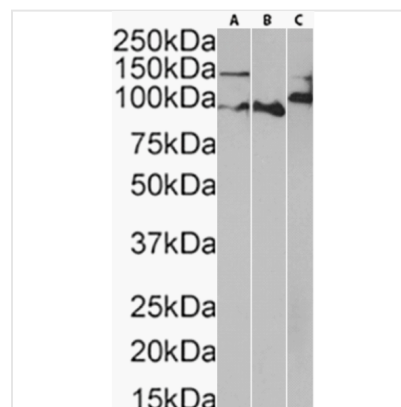
|                                                |                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                     | Mouse                                                                                                                                                                                                                                                                                   |
| Isotype                                        | Mouse IgG1 kappa                                                                                                                                                                                                                                                                        |
| Clone Number                                   | 56-4                                                                                                                                                                                                                                                                                    |
| Specificity                                    | This antibody binds mouse E-cadherin. Cadherins are calcium-dependent cell adhesion proteins. It is localized on the surfaces of epithelial cells in regions of cell-cell contact known as adherens junctions. E-cadherins are reported to play an important role in cancer metastasis. |
| Purity/Purification                            | Purified. Protein A affinity purified                                                                                                                                                                                                                                                   |
| Form/Format                                    | PBS with 0.02% Proclin 300.                                                                                                                                                                                                                                                             |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-Cdh1 antibody | ELISA, Antagonistic Antibody                                                                                                                                                                                                                                                            |
| Preparation and Storage                        | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                                                                                                                          |

### IMAGES



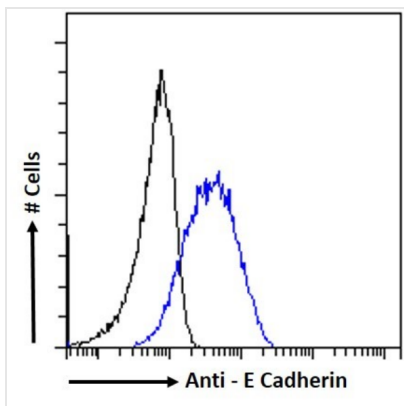
#### IF (Immunofluorescence)

Immunofluorescence staining of RAW 264.7 cells with anti-E Cadherin antibody 56-4 . Immunofluorescence analysis of paraformaldehyde fixed RAW 264.7 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 56-4 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing membrane staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom., DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



#### WB (Western Blot)

Western blot using anti-E Cadherin antibody 56-4 . Mouse lung (A) (0.01ug/ml), colon (B) (0.001ug/ml), and intestine (C) (0.1ug/ml) tissue lysates (35ug protein in RIPA buffer) were resolved on an SDS-PAGE gel, and blots were probed with the chimeric rabbit version of 56-4 at the mentioned respective concentrations before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.



#### FCM/FACS (Flow Cytometry)

Flow cytometry using anti-E Cadherin antibody 56-4 . RAW 264.7 cells were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 56-4 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Cdh1 antibody | The original antibody was generated by immunizing rabbits with purified extracellular domain of mouse E-cadherin. The paper describes the use of activating antibodies to determine the role of E-cadherin in regulation of metastasis. This chimeric mouse antibody was made using the variable domain sequences of the original Rabbit IgG format for improved compatibility with existing reagents assays and techniques. |
| Product Categories/Family for anti-Cdh1 antibody   | <a href="#">cell adhesion</a> ; <a href="#">cancer metastasis</a> ; <a href="#">cancer</a> ; <a href="#">oncology</a>                                                                                                                                                                                                                                                                                                        |
| References                                         | Young Na et al.<br>Proc Natl Acad Sci U S A. 2020 Mar 17;117(11):5931-5937.                                                                                                                                                                                                                                                                                                                                                  |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | <a href="#">115419</a>                                         |
| NCBI GeneID                      | <a href="#">12550</a>                                          |
| UniProt Accession #              | <a href="#">P09803</a> ; <a href="#">Q61377</a>                |
| Molecular Weight                 | 884                                                            |
| NCBI Official Full Name          | Cadherin-1                                                     |
| NCBI Official Synonym Full Names | cadherin 1                                                     |
| NCBI Official Symbol             | Cdh1                                                           |
| NCBI Official Synonym Symbols    | Um; UVO; Ecad; E-cad; L-CAM; AA960649                          |
| NCBI Protein Information         | cadherin-1; ARC-1; E-cadherin; uvomorulin; epithelial cadherin |
| UniProt Protein Name             | Cadherin-1                                                     |
| UniProt Gene Name                | <b>Cdh1</b>                                                    |
| UniProt Synonym Gene Names       | E-cadherin                                                     |
| UniProt Entry Name               | CADH1_MOUSE                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.