

Antibodies

Anti-Mouse E-Cadherin (CD324) Antibody, Clone DECMA-1

Rat monoclonal IgG1 antibody against
human, mouse, dog E-cadherin
(CD324), unconjugated

Catalog #60157
#60157.1

100 µg 0.5 mg/mL
25 µg 0.5 mg/mL



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Product Description

The DECMA-1 antibody recognizes E-cadherin, a calcium-dependent transmembrane glycoprotein involved in cell-cell adhesion, bacterial pathogenesis, and tumor invasion. The extracellular region of E-cadherin is composed of multiple cadherin repeats that contain calcium-binding motifs. The cytoplasmic domain of E-cadherin is reported to interact with a range of intracellular proteins including erbin, ezrin, caspase-3, caspase-8, β -catenin, presenilin 1, and casein kinase II. E-cadherin is expressed in most epithelial cells and in erythroid cells. The E-cadherin antibody is often used as a neutralizing antibody to inhibit E-cadherin-mediated cell-cell interactions.

Target Antigen Name:	E-Cadherin (CD324)
Alternative Names:	Arc 1, Cadherin-1, CAM 120/80, CDHE, CDH1, E-Cad/CTF3, Epithelial cadherin, epithelial calcium-dependent adhesion protein, LCAM, Liver cell adhesion molecule, UVO, Uvomorulin
Gene ID:	999/12550
Species Reactivity:	Human, Mouse, Dog, Pig
Host Species:	Rat (Lou)
Clonality:	Monoclonal
Clone:	DECMA-1
Isotype:	IgG1, kappa
Immunogen:	Mouse embryonal carcinoma cell line PCC4 AZA1
Conjugate:	Unconjugated

Applications

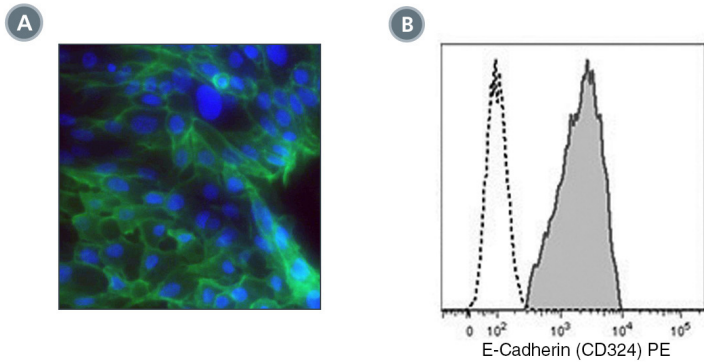
Verified:	FC, ICC, IF
Reported:	FA, FC, IF, IP, WB
Special Applications:	This antibody clone has been verified for labeling human airway epithelial cells cultured in PneumaCult™-Ex Medium (Catalog #05008) in submerged cultures.

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	The suggested use of this antibody is: FC, $\leq 1 \mu\text{g}$ per 1×10^6 cells in 100 μL volume; ICC/IF, 1:200 - 1:500 dilution. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Primary human airway epithelial cells were expanded in a submerged culture with PneumaCult™-Ex Medium (Catalog #05008). The cells were labeled with Anti-Mouse E-Cadherin (CD324) Antibody, Clone DECMA-1, followed by a donkey anti-mouse IgG antibody, Alexa Fluor® 488, and counterstained with DAPI.

(B) Flow cytometry analysis of MDCK epithelial cells labeled with Anti-Mouse E-Cadherin (CD324) Antibody, Clone DECMA-1, followed by an anti-rat IgG1 antibody, PE (filled histogram) or Rat IgG1, kappa Isotype Control Antibody, Clone RTK2071 (Catalog #60075), followed by an anti-rat IgG1 antibody, PE (dotted line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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