Datasheet for ABIN457335

# anti-E-cadherin antibody (FITC)

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## Overview

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|---|---|
| Quantity: | 100 tests |
| Target: | E-cadherin (CDH1) |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This E-cadherin antibody is conjugated to FITC |
| Application: | Flow Cytometry (FACS) |

## Product Details

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|---|---|
| Purpose: | Anti-Hu CD324 FITC |
| Immunogen: | T-47D cells |
| Clone: | 67A4 |
| Isotype: | IgG1 |
| Specificity: | The mouse monoclonal antibody 67A4 recognizes an extracellular epitope of CD324 / E-cadherin, an approximately 100 kDa epithelial cell adhesion molecule, whose detection is important for determination of invasive potential of epithelial neoplasms. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

## Target Details

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| Target: | E-cadherin (CDH1) |
| Alternative Name: | CD324 (CDH1 Products) |
| Background: | Cadherin 1,CD324 / E-cadherin is an epithelial cell surface molecule, which provides calcium-dependent homophilic interactions with E-cadherin of another cell. These intaractions take part in morphogenetic programs controlling the maintenance of the structural and functional integrity of epithelia and affect invasive potential of epithelial neoplasms. CD324 / E-cadherin is implicated in cell growth and differentiation, cell recognition, and sorting during developmental morphogenesis, as well as in aggregation-dependent cell survival. CD324 / E-cadherin-mediated cell adhesion system is highly regulated from inside the cell by a number of intracellular signaling pathways.,Cadherin-1, E-cadherin, Uvomorulin, CAM 120/80, UVO, CDHE, ECAD, LCAM, BCDS1, Arc-1 |
| Gene ID: | 999 |
| UniProt: | P12830 |
| Pathways: | WNT Signaling, Sensory Perception of Sound, Cell-Cell Junction Organization, Tube Formation |

## Application Details

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| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or $10^6$ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. |
| Restrictions: | For Research Use only |

## Handling

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| Reconstitution: | No reconstitution is necessary. |
| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | **Do not freeze.**<br>Avoid prolonged exposure to light. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze. |

## Publications

Product cited in:

Lin, Liao, Lee, Hung, Sayion, Chen, Kang, Huang, Cherng: "Molecular events associated with epithelial to mesenchymal transition of nasopharyngeal carcinoma cells in the absence of Epstein-Barr virus genome." in: **Journal of biomedical science**, Vol. 16, pp. 105, (2009) (PubMed ).

Caberg, Hubert, Begon, Herfs, Roncarati, Boniver, Delvenne: "Silencing of E7 oncogene restores functional E-cadherin expression in human papillomavirus 16-transformed keratinocytes." in: **Carcinogenesis**, Vol. 29, Issue 7, pp. 1441-7, (2008) (PubMed).

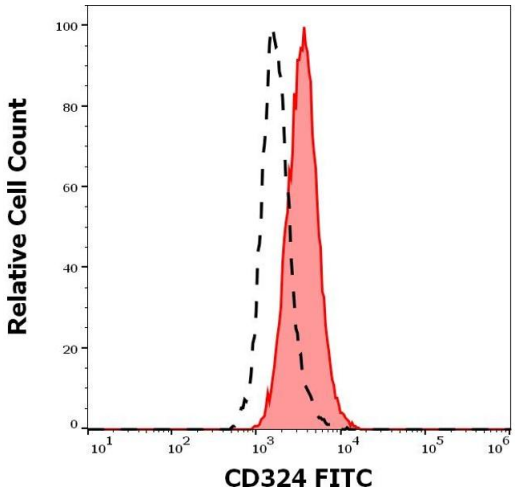
Furio, Guezennec, Ducarre, Guesnet, Peguet-Navarro: "Differential effects of allergens and irritants on early differentiating monocyte-derived dendritic cells." in: **European journal of dermatology : EJD**, Vol. 18, Issue 2, pp. 141-7, (2008) (PubMed).

Robertson, Ali, McDonnell, Burt, Kirby: "Chronic renal allograft dysfunction: the role of T cell-mediated tubular epithelial to mesenchymal cell transition." in: **Journal of the American Society of Nephrology : JASN**, Vol. 15, Issue 2, pp. 390-7, (2004) (PubMed).

Kutlesa, Wessels, Speiser, Steiert, Müller, Klein: "E-cadherin-mediated interactions of thymic epithelial cells with CD103+ thymocytes lead to enhanced thymocyte cell proliferation." in: **Journal of cell science**, Vol. 115, Issue Pt 23, pp. 4505-15, (2002) (PubMed).

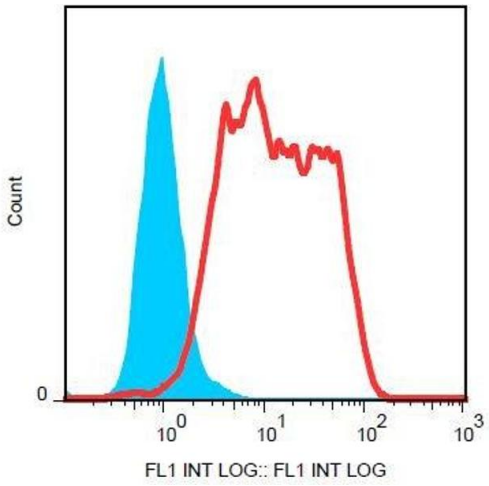
There are more publications referencing this product on: Product page

## Images




**Flow Cytometry**

**Image 1.** Separation of HT-29 cells stained using anti-human CD324 (67A4) FITC antibody (20 µL reagent per million cells in 100 µL of cell suspension, red-filled) from HT-29 cells stained using mouse IgG1 isotype control (MOPC-21) FITC antibody (concentration in sample 10 µg/mL, same as CD324 FITC concentration, black-dashed) in flow cytometry analysis (surface staining) of HT-29 cell suspension.




**Flow Cytometry**

**Image 2.** Surface staining of HT-29 cells with anti-CD324 (67A4) FITC.