

Datasheet for ABIN807921
anti-E-cadherin antibody (PE)



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Overview

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

Product Details

Purpose:	Anti-Hu CD324 PE
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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

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 interactions 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

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

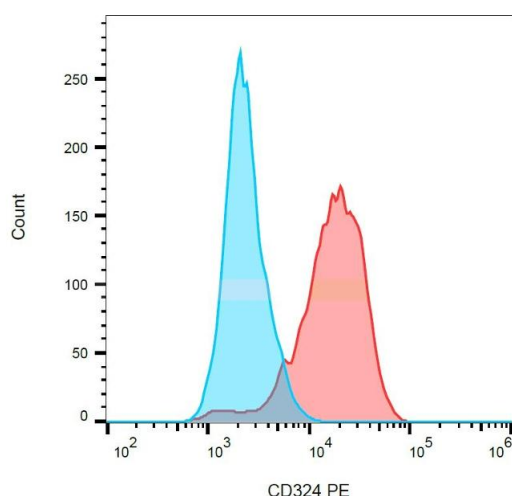
Handling

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. 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](#)).
- 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](#)).
- 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](#)).
- 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](#)).
- Novak, Kraft, Haberstk, Geiger, Allam, Bieber: "A reducing microenvironment leads to the generation of FcepsilonRIhigh inflammatory dendritic epidermal cells (IDEC)." in: **The Journal of investigative dermatology**, Vol. 119, Issue 4, pp. 842-9, (2002) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of HT-29 (red) / SP2 (blue) cells with anti-CD324 (67A4) PE.