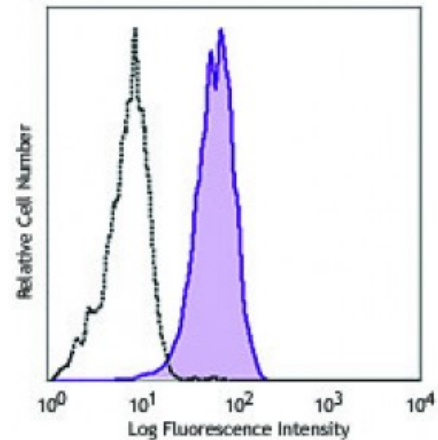


PE/Cy7 anti-human CD324 (E-Cadherin)

Catalog # / Size:	2220580 / 100 tests 2220575 / 25 tests
Clone:	67A4
Isotype:	Mouse IgG1, κ
Immunogen:	T-47D cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Human colon carcinoma cell line (HT29) was stained with CD324 (clone 67A4) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application References:	<ol style="list-style-type: none">Armeanu S, <i>et al.</i> 1995. <i>J. Cell Biol.</i> 131:243.Bühring HJ, <i>et al.</i> 1996. <i>Leukemia</i> 10:106.Yauch RL, <i>et al.</i> 2005. <i>Clin. Cancer Res.</i> 11:8686. (WB)Oetzuerk-Winder F, <i>et al.</i> 2012. <i>EMBO J.</i> 31:3431. (FC) PubMed

Description: The 67A4 antibody recognizes human CD324 also known as E-cadherin, cadherin-1, and UVO. CD324, a member of the cadherin superfamily, is a calcium-dependent, transmembrane cell-cell adhesion glycoprotein composed of four extracellular cadherin repeats and a highly conserved cytoplasmic tail region with a predicted molecular weight of approximately 100 kD. CD324 is widely expressed in epithelial cells in the colon, uterus, liver, keratinocytes, brain, heart, muscle, kidney, and pancreas as well as erythroid cells. CD324 functions as a cell adhesion molecule involved in development, bacterial pathogenesis, and tumor invasion. In bacterial pathogenesis, the ectodomain of CD324 mediates bacterial adhesion to mammalian cells, while the cytoplasmic domain is required for internalization. CD324 binds to the $\alpha_E\beta_7$ integrin to mediate cell adhesion and also interacts with a number of intracellular proteins including including erbin, ezrin, caspase-3, caspase 8, β -catenin, presenilin 1, and casein kinase II as well as other extracellular proteins including the EGF receptor. CD324 is phosphorylated on multiple residues (S857, S866, S870, S872), and can be proteolytically cleaved at residue D769 by caspase-3.

Antigen References:

- Overduin M, *et al.* 1995. *Science* 267:386.
- Boggon TJ, *et al.* 2002. *Science* 296:1303.
- Berx G, *et al.* 1995. *EMBO J.* 14:6107.

4. Perl AK, *et al.* 1998. *Nature* 39