

Datasheet for ABIN5711933
anti-Cadherin 5 antibody (PE)



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2 Images

Overview

Quantity:	100 tests
Target:	Cadherin 5 (CDH5)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cadherin 5 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD144 PE
Immunogen:	Human endothelial cells
Clone:	55-7H1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 55-7H1 recognizes a calcium-independent extracellular epitope on CD144 (VE-cadherin, cadherin 5), an adhesion molecule expressed on endothelial cells.
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

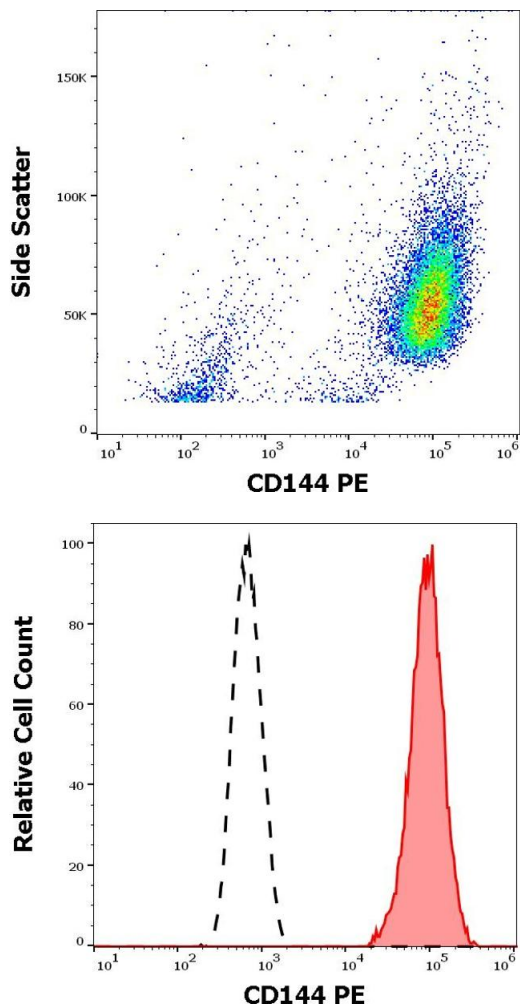
Target:	Cadherin 5 (CDH5)
Alternative Name:	CD144 (CDH5 Products)
Background:	Cadherin 5,CD144 / VE-cadherin (cadherin 5) is the major cadherin that is present at endothelial junctions. It is also strictly endothelial specific. Under vascular permeability increasing conditions (and also in capillaries and veins) CD144 is being phosphorylated, which promotes its rapid and reversible internalization. On the contrary, binding of p120 catenin (delta1 catenin) maintains CD144 localization at the plasma membrane, which stabilizes the junction and reduces vascular permeability.,Cadherin 5, CDH5, 7B4, VE-cadherin
Gene ID:	1003
UniProt:	P33151
Pathways:	Cell-Cell Junction Organization , Signaling Events mediated by VEGFR1 and VEGFR2

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

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:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of HUVEC cells stained using anti-human CD144 (55-7H1) PE antibody (10 μ L reagent per milion cells in 100 μ L of cell suspension).

Flow Cytometry

Image 2. Separation of HUVEC cells (red-filled) from HL-60 cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human CD144 (55-7H1) PE antibody (10 μ L reagent per milion cells in 100 μ L of cell suspension).