

Technical Data Sheet

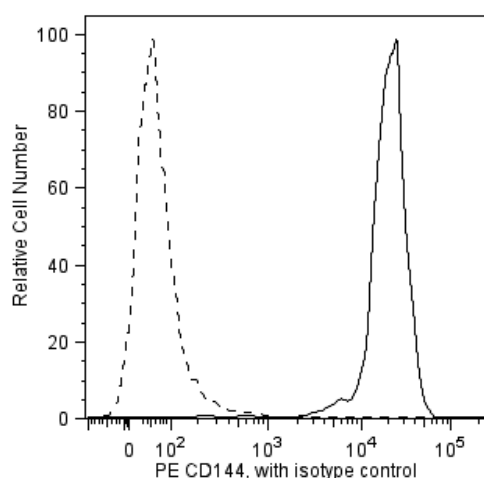
PE Mouse Anti-Human CD144

Product Information

Material Number:	561714
Alternate Name:	VE-cadherin; Cadherin-5; CDH5; Vascular endothelial cadherin
Size:	25 tests
Vol. per Test:	20 µl
Clone:	55-7H1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI E092
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 55-7H1 antibody reacts with a calcium-independent epitope on cadherin-5, a member of the cadherin family of calcium-dependent adhesion molecules. Cadherin-5 is expressed on endothelial cells *in vivo* and *in vitro*. It may play a role in the organization of lateral endothelial junctions and in the control of permeability properties of vascular endothelium.



Analysis of CD144 on Human Umbilical Vein Endothelial Cells (HUVECs). HUVECs were stained with either PE Mouse anti-Human CD144 (solid line) or PE Mouse IgG1, κ Isotype Control (clone MOPC-21, Cat. No. 555749, dotted line). Flow cytometry was performed on a BD™ LSR II flow cytometry system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. An isotype control should be used at the same concentration as the antibody of interest.

References

Breier G, Breviario F, Caveda L, et al. Molecular cloning and expression of murine vascular endothelial-cadherin in early stage development of cardiovascular system. *Blood*. 1996; 87(2):630-641. (Biology)

Lampugnani MG, Resnati M, Raiteri M, et al. A novel endothelial-specific membrane protein is a marker of cell-cell contacts. *J Cell Biol*. 1996; 118(6):1511-1522. (Biology)

Vincent PA, Xiao K, Buckley KM, Kowalczyk AP. VE-cadherin: adhesion at arm's length. *Am J Physiol Cell Physiol*. 2004; 286:C987-C997. (Biology)