Technical Data Sheet

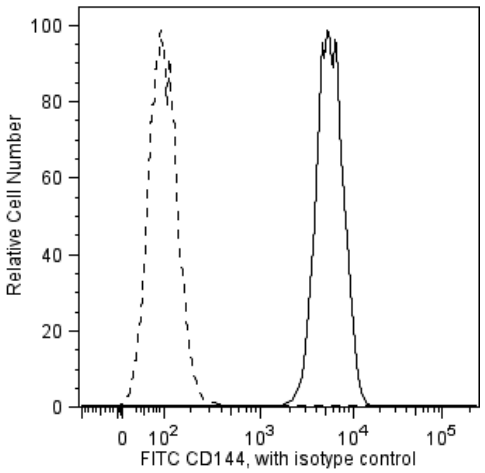
FITC Mouse anti-Human CD144

Product Information

Material Number:	**560411**
Alternate Name:	VE-cadherin; Cadherin-5; CDH5; Vascular endothelial cadherin
Size:	100 tests
Vol. per Test:	20 µl
Clone:	55-7H1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Tested: Human
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 FITC Mouse anti-Human CD144 (solid line) or FITC Mouse IgG1, κ Isotype Control (clone MOPC-21, Cat. No. 555748, dotted line). Flow cytometry was performed on a BD LSR™ II flow cytometry system.*

Preparation and Storage

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

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

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

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555748	FITC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554781	PBS Wash Buffer	3 x 125 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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5. 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.

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)