

CD144 (VE-cadherin) Monoclonal Antibody (16B1), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Non-human primate, Human, Mouse
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16B1
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10804754

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	21 Publications

Product Specific Information

Description: The 16B1 antibody reacts with human CD144, also known as VE-cadherin and cadherin-5. The cadherin family of receptors, which are calcium-dependent adhesion molecules, is known to be involved in homophilic cell interactions. VE-cadherin, which is 140 kDa, is localized at the intercellular boundaries of endothelial cells in blood and lymphatic vessels in several tissues. It is thought to play a role in vascular permeability and remodeling.

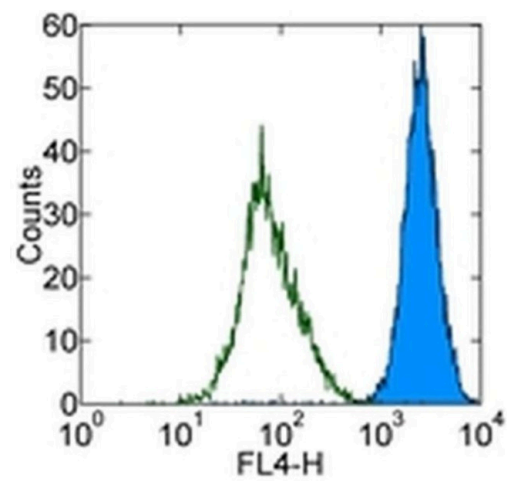
Applications Reported: This 16B1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 16B1 antibody has been pre-titrated and tested by flow cytometric analysis of Human Umbilical Vein Endothelial Cells (HUVEC). This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD144 (VE-cadherin) Monoclonal Antibody (16B1), APC, eBioscience™



CD144 (VE-cadherin) Antibody (17-1449-42) in Flow
Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with Mouse IgG1 kappa Isotype Control APC (Product # 17-4714-81) (open histogram) or Anti-Human CD144 (VE-Cadherin) APC (filled histogram). Total viable cells were used for analysis.

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21 References

Flow Cytometry (21)

<p>Methods in molecular biology (Clifton, N.J.)</p> <p>Differentiation and Characterization of Human Pluripotent Stem Cell-Derived Cardiac Endothelial Cells for In Vitro Applications.</p> <p>"17-1449-42 was used in Flow cytometry/Cell sorting to describe a protocol for cardiac EC differentiation and a protocol for endothelial cell characterization which is also applicable for complex model generation where multiple cardiovascular cell types are involved and may assist in optimizing differentiations for different cell lineages, including cardiomyocytes, cardiac endothelial cells, and cardiac fibroblasts."</p> <p>Authors: Raniga K,Vo NTN,Denning C</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:20</p>
<p>Cell transplantation</p> <p>Upregulation of ETV2 Expression Promotes Endothelial Differentiation of Human Dental Pulp Stem Cells.</p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 17-1449-42) in Flow Cytometry"</p> <p>Authors: Li J,Zhu Y,Li N,Wu T,Zheng X,Heng BC,Zou D,Xu J</p>	<p>Year 2021</p>

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