

# CD144 (VE-cadherin) Monoclonal Antibody (16B1), PE-Cyanine7, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Pig, Human
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16B1
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2573403

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	13 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 HUVEC. This can be used at 5 µL (0.5 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<sup>5</sup> to 10<sup>8</sup> cells/test.

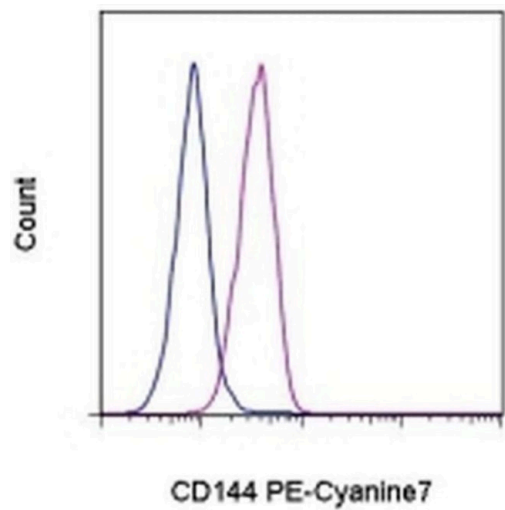
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD144 (VE-cadherin) Monoclonal Antibody (16B1), PE-Cyanine7, eBioscience™



**CD144 (VE-cadherin) Antibody (25-1449-41) in Flow**  
Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (blue histogram) or Anti-Human CD144 (VE-Cadherin) PE-Cyanine7 (purple histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

13 References

Flow Cytometry (13)

<p>Cell transplantation</p> <p><b>Upregulation of ETV2 Expression Promotes Endothelial Differentiation of Human Dental Pulp Stem Cells.</b></p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 25-1449-42) 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</p> <p>2021</p>
<p>Cell reports. Medicine</p> <p><b>Vascular Tumor Recapitulated in Endothelial Cells from hiPSCs Engineered to Express the <i>SERPINE1-FOSB</i> Translocation.</b></p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 25-1449-42) in Flow Cytometry"</p> <p>Authors: van IJzendoorn DGP,Salvatori DCF,Cao X,van den Hil F,Briaire-de Bruijn IH,de Jong D,Mei H,Mummery CL, Szuhai K,Bové JVMG,Orlova VV</p>	<p>Year</p> <p>2020</p>

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