

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

Product Details	
Size	100 µg
Species	Human
Published Species	Human
Expression System	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16B1
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466611

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	6 Publications
Immunocytochemistry (ICC)	Assay-Dependent	2 Publications
Immunofluorescence (IF)	Assay-Dependent	4 Publications
Immunohistochemistry (IHC)	-	3 Publications

## Product Specific Information

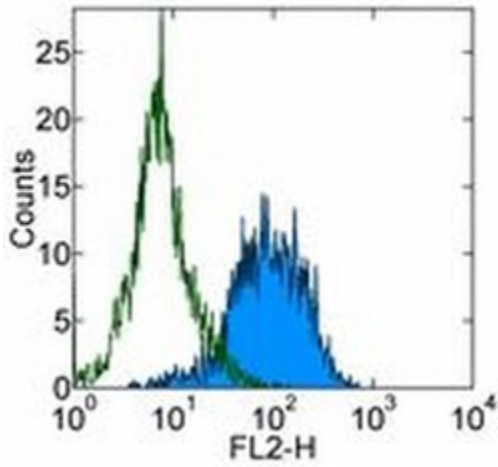
**Description:** The 16B1 antibody reacts with human CD144, also known as VE-cadherin and cadherin-5. The cadherin family of receptors, which are calcium-dependent adhesion molecules, is known to be involved in homophilic cell interactions. VE-cadherin, which is 140 kDa, is localized at the intercellular 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, and immunocytochemistry.

**Applications Tested:** This 16B1 antibody has been tested by flow cytometric analysis of Human Umbilical Vein Endothelial Cells (HUVEC). This can be used at less than or equal to 0.125 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



### CD144 (VE-cadherin) Antibody (13-1449-82) in Flow

Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with 0.25 µg of Mouse IgG1 kappa Isotype Control Biotin (Product # 13-4714-85) (open histogram) or 0.125 µg of Anti-Human CD144 (VE-Cadherin) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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## Flow Cytometry (6)

### Stem cell reports

#### Targeted Disruption of TCF12 Reveals HEB as Essential in Human Mesodermal Specification and Hematopoiesis.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Flow Cytometry"  
 Authors: Li Y,Brauer PM,Singh J,Xhiku S,Yoganathan K,Zúñiga-Pflücker JC,Anderson MK

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2017

### Stem cell research and therapy

#### ERK signaling is required for VEGF-A/VEGFR2-induced differentiation of porcine adipose-derived mesenchymal stem cells into endothelial cells.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Flow Cytometry"  
 Authors: Almalki SG,Agrawal DK

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2017

[View more Flow references on thermofisher.com](#)

## Immunocytochemistry (2)

### PloS one

#### Challenges in enumeration of CTCs in breast cancer using techniques independent of cytokeratin expression.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Immunocytochemistry"  
 Authors: Castle J,Morris K,Pritchard S,Kirwan CC

**Species**  
Human  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2017

### Arteriosclerosis, thrombosis, and vascular biology

#### Rab11a Mediates Vascular Endothelial-Cadherin Recycling and Controls Endothelial Barrier Function.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Flow Cytometry"  
 Authors: Yan Z,Wang ZG,Segev N,Hu S,Minshall RD,Dull RO,Zhang M,Malik AB,Hu G

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

## More applications with references on thermofisher.com

IHC (3) IF (4)

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