

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

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	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
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466611

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	Assay-Dependent	5 Publications
Flow Cytometry (Flow)	0.125 µg/test	12 Publications

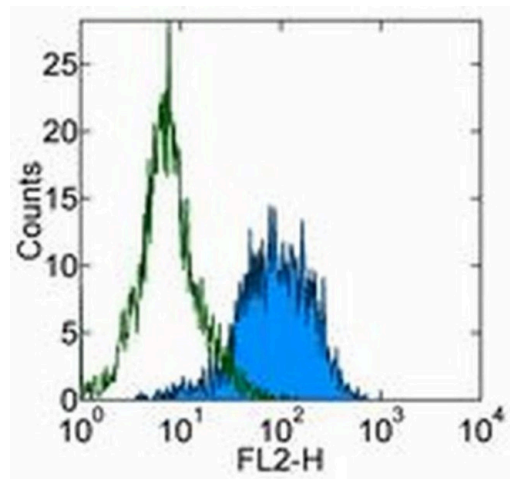
Product Specific Information

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 10⁵ to 10⁸ 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.



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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Western Blot (1)

Viruses	Year 2021
Deciphering the Role of Extracellular Vesicles Derived from ZIKV-Infected hcMEC/D3 Cells on the Blood-Brain Barrier System.	
"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Western Blot"	
Authors: Fikatas A,Dehairs J,Noppen S,Doijen J,Vanderhoydonc F,Meyen E,Swinnen JV,Pannecouque C,Schols D	

Immunohistochemistry (4)

Scientific reports	Year 2020
Endothelial specific YY1 deletion restricts tumor angiogenesis and tumor growth.	
"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Immunohistochemistry"	
Authors: Liu H,Qiu Y,Pei X,Chitteti R,Steiner R,Zhang S,Jin ZG	
PloS one	Year 2017
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 Immunohistochemistry"	
Authors: Castle J,Morris K,Pritchard S,Kirwan CC	
Species Human	

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

Immunohistochemistry (Paraffin) (1)

ERJ open research	Year 2022
Vascular remodelling in idiopathic pulmonary fibrosis patients and its detrimental effect on lung physiology: potential role of endothelial-to-mesenchymal transition.	
"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1449-82) in Immunohistochemistry (Paraffin)"	
Authors: Gaikwad AV,Lu W,Dey S,Bhattarai P,Chia C,Larby J,Haug G,Myers S,Jaffar J,Westall G,Singhera GK,Hackett TL,Markos J,Eapen MS,Sohal SS	

More applications with references on thermofisher.com

- ICC/IF (5)
- Flow (12)

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