

# CD144 (VE-cadherin) Monoclonal Antibody (eBioBV13 (BV13)), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioBV13 (BV13)
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_1234997

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	3 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	1 µg/test	9 Publications
ChIP assay (ChIP)	-	1 Publication
Peptide array (Array)	-	1 Publication

## Product Specific Information

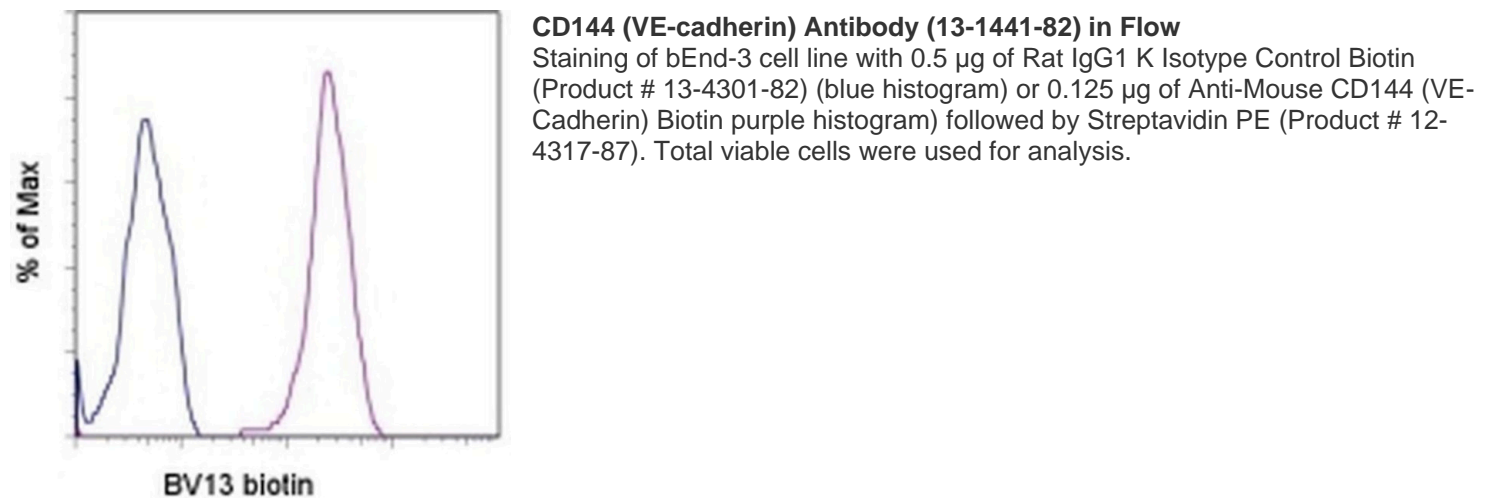
Description: The BV13 monoclonal antibody reacts with mouse VE-Cadherin (CD144). VE-Cadherin is a 120 kDa member of the type II Cadherin family, characterized by the presence of 5 extracellular cadherin domains (ECD), and anchored to the actin cytoskeleton through their cytoplasmic tail. VE-Cadherin mediates homophilic adhesion between neighbouring endothelial cells and is localized within specialized structures at cell-cell contacts, called adherens junctions. VE-Cadherin is expressed constitutively throughout the entire vasculature, and is required for numerous endothelial cell functions including migration, survival, contact-dependent growth inhibition and endothelial cell assembly into tubular structures. Furthermore, it is thought that VE-Cadherin+CD45- cells from the yolk sac or aorta-gonad-mesonephros (AGM) have the potential to give rise to hematopoietic cells.

Applications Reported: This eBioBV13 (BV13) antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistology staining of frozen tissue sections.

Applications Tested: This eBioBV13 (BV13) antibody has been tested by flow cytometric analysis of bEnd.3 cells. This can be used at less than or equal to 0.25 µg This can be used at less than or equal to 1 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 (eBioBV13 (BV13)), Biotin, eBioscience™**



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Western Blot (3)

<p>Aging cell</p> <p><b>Monomeric C-reactive protein via endothelial CD31 for neurovascular inflammation in an ApoE genotype-dependent pattern: A risk factor for Alzheimer's disease?</b></p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1441-82) in Western Blot"</p> <p>Authors: Zhang Z,Na H,Gan Q,Tao Q,Alekseyev Y,Hu J,Yan Z,Yang JB,Tian H,Zhu S,Li Q,Rajab IM,Blusztajn JK,Wolozin B,Emili A,Zhang X,Stein T,Potempa LA,Qiu WQ</p>	<p>Year</p> <p>2021</p>
<p>Cell death &amp; disease</p> <p><b>Knockout RAGE alleviates cardiac fibrosis through repressing endothelial-to-mesenchymal transition (EndMT) mediated by autophagy.</b></p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1441-82) in Western Blot"</p> <p>Authors: Zhang L,He J,Wang J,Liu J,Chen Z,Deng B,Wei L,Wu H,Liang B,Li H,Huang Y,Lu L,Yang Z,Xian S,Wang L</p>	<p>Year</p> <p>2021</p>

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Immunohistochemistry (5)

<p>JCI insight</p> <p><b>Flow pattern-dependent mitochondrial dynamics regulates the metabolic profile and inflammatory state of endothelial cells.</b></p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1441-82) in Immunohistochemistry"</p> <p>Authors: Hong SG,Shin J,Choi SY,Powers JC,Meister BM,Sayoc J,Son JS,Tierney R,Recchia FA,Brown MD,Yang X, Park JY</p>	<p>Year</p> <p>2022</p>
<p>The Journal of cell biology</p> <p><b>VE-cadherin endocytosis controls vascular integrity and patterning during development.</b></p> <p>"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 13-1441-82) in Immunocytochemistry"</p> <p>Authors: Grimsley-Myers CM,Isaacson RH,Cadwell CM,Campos J,Hernandes MS,Myers KR,Seo T,Giang W,Griendling KK,Kowalczyk AP</p>	<p>Year</p> <p>2020</p>

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- IHC (F) (1)
- ICC/IF (6)
- Flow (9)
- ChIP (1)
- Array (1)

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