

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioBV13 (BV13)
Conjugate	Unconjugated
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
RRID	AB_842767

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	5 Publications
Functional Assay (FN)	Assay-Dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	-
Western Blot (WB)	Assay-Dependent	3 Publications
ChIP assay (ChIP)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	8 Publications
Immunohistochemistry (IHC)	-	6 Publications
Inhibition Assays (IA)	-	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, immunoprecipitation, immunoblotting (WB), and immunohistology staining of frozen tissue sections. Intravenous injection of BV13 has been shown to induce a concentration- and time-dependent increase in vascular permeability in the heart and lungs. (Please use Functional Grade purified eBioBV13 (BV13), cat. 16-1441, in functional assays.).

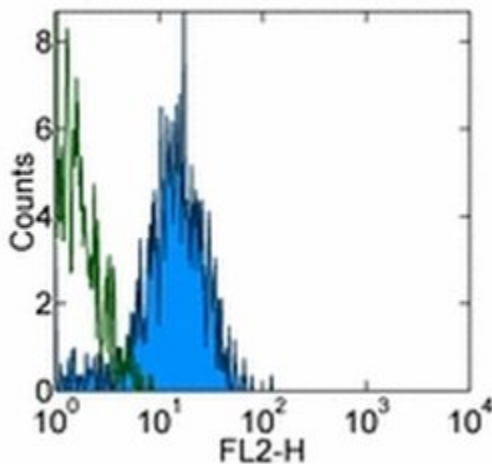
Applications Tested: This eBioBV13 (BV13) antibody has been tested by flow cytometric analysis of bEnd.3 cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD144 (VE-cadherin) Monoclonal Antibody (eBioBV13 (BV13)), eBioscience™



CD144 (VE-cadherin) Antibody (14-1441-82) in Flow

Staining of bEnd-3 cell line with 0.5 µg of Rat IgG1 K Isotype Control Purified (Product # 14-4301-82) (open histogram) or 0.5 µg of Anti-Mouse CD144 (VE-Cadherin) Purified (filled histogram) followed by F (ab')₂ Anti-Rat IgG PE (Product # 12-4822). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

27 References

ChIP assay (1)

eLife

Single-cell transcriptomics reveals a new dynamical function of transcription factors during embryonic hematopoiesis.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 14-1441-82) in ChIP assay"

Authors: Bergiers I, Andrews T, Vargel Bölükba Ö, Bunes A, Janosz E, Lopez-Anguita N, Ganter K, Kosim K, Celen C, Itr Perçin G, Collier P, Baying B, Benes V, Hemberg M, Lancrin C

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2018

Flow Cytometry (5)

eLife

Single-cell transcriptomics reveals a new dynamical function of transcription factors during embryonic hematopoiesis.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 14-1441-82) in ChIP assay"

Authors: Bergiers I, Andrews T, Vargel Bölükba Ö, Bunes A, Janosz E, Lopez-Anguita N, Ganter K, Kosim K, Celen C, Itr Perçin G, Collier P, Baying B, Benes V, Hemberg M, Lancrin C

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2018

Scientific reports

Activation of the TGF pathway impairs endothelial to haematopoietic transition.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 14-1441-82) in Flow Cytometry"

Authors: Vargel Ö, Zhang Y, Kosim K, Ganter K, Foehr S, Mardenborough Y, Shvartsman M, Enright AJ, Krijgsveld J, Lancrin C

Species
Not Applicable

Dilution
Not Cited

Year
2016

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Peptide Array (1)

eLife

Single-cell transcriptomics reveals a new dynamical function of transcription factors during embryonic hematopoiesis.

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 14-1441-82) in ChIP assay"

Authors: Bergiers I, Andrews T, Vargel Bölükba Ö, Bunes A, Janosz E, Lopez-Anguita N, Ganter K, Kosim K, Celen C, Itr Perçin G, Collier P, Baying B, Benes V, Hemberg M, Lancrin C

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2018

More applications with references on thermofisher.com

[IHC \(6\)](#) [IF \(8\)](#) [WB \(3\)](#) [ICC \(1\)](#) [IHC \(F\) \(1\)](#) [IA \(1\)](#)

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