

# CD144 (VE-cadherin) Monoclonal Antibody (eBioBV13 (BV13)), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioBV13 (BV13)
Conjugate	eFluor® 450
Form	Liquid
Concentration	0.2 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_1944347

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	2 µg/test	4 Publications
ChIP assay (ChIP)	-	1 Publication
Immunofluorescence (IF)	-	4 Publications
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.

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 2 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final

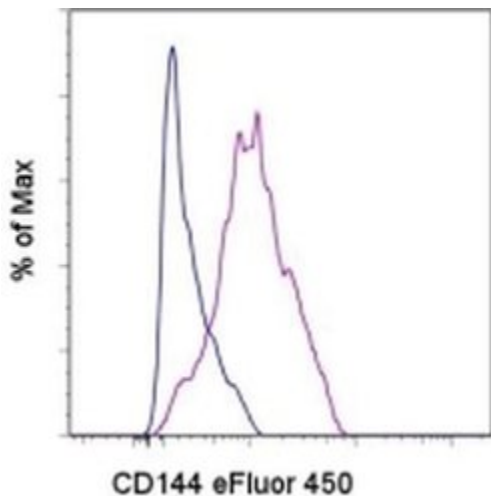
volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For CD144 (VE-cadherin) Monoclonal Antibody (eBioBV13 (BV13)), eFluor 450, eBioscience™



### CD144 (VE-cadherin) Antibody (48-1441-82) in Flow

Staining of bEnd-3 cell line with 1  $\mu$ g of Rat IgG1 K Isotype Control eFluor® 450 (Product # 48-4301-82) (blue histogram) or 1  $\mu$ g of Anti-Mouse CD144 (VE-Cadherin) eFluor® 450 (purple histogram). Total viable cells were used for analysis.

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

## 10 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 # 48-1441-82) 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, Lanrcin C

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2018

### Flow Cytometry (4)

eLife

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

"Published figure using CD144 (VE-cadherin) monoclonal antibody (Product # 48-1441-82) 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, Lanrcin 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 # 48-1441-82) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

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

### 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 # 48-1441-82) 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, Lanrcin C

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2018

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### IF (4)

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