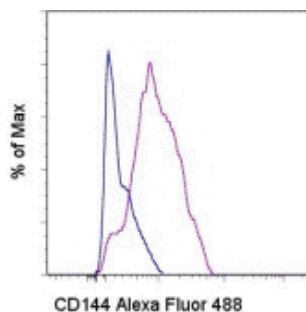


## Anti-Mouse CD144 (VE-Cadherin) Alexa Fluor® 488

Catalog Number: 53-1441

Also Known As: Cdh5, Cadherin-5, Vascular endothelial cadherin

RUO: For Research Use Only



Staining of bEND.3 cell line with 0.5 ug of Rat IgG1 K Isotype Control Alexa Fluor® 488 (cat. 53-4301) (blue histogram) or 0.5 ug of Anti-Mouse CD144 (VE-Cadherin) Alexa Fluor® 488 (purple histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD144 (VE-Cadherin) Alexa Fluor® 488


**REF** **Catalog Number:** 53-1441

**Clone:** eBioBV13 (BV13)


**Concentration:** 0.5 mg/mL

**Host/Isotype:** Rat IgG1

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### 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, 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 0.5 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.

### References

Corada M, Mariotti M, Thurston G, Smith K, Kunkel R, Brockhaus M, Lampugnani MG, Martin-Padura I, Stoppacciaro A, Ruco L, McDonald DM, Ward PA, Dejana E. Vascular endothelial-cadherin is an important determinant of microvascular integrity in vivo. Proc Natl Acad Sci U S A. 1999 Aug 17;96(17):9815-20. (**BV13**, FA, IHC, PubMed)

Liao F, Li Y, O'Connor W, Zanetta L, Bassi R, Santiago A, Overholser J, Hooper A, Mignatti P, Dejana E, Hicklin DJ, Bohlen P. Monoclonal antibody to vascular endothelial-cadherin is a potent inhibitor of angiogenesis, tumor growth, and metastasis. Cancer Res. 2000 Dec 15;60(24):6805-10. (**BV13**, FA, PubMed)

Crosby CV, Fleming PA, Argraves WS, Corada M, Zanetta L, Dejana E, Drake CJ. VE-cadherin is not required for the formation of nascent blood vessels but acts to prevent their disassembly. Blood. 2005 Apr 1;105(7):2771-6. Epub 2004 Dec 16. (**BV13**, FA, PubMed)

### Related Products

53-1449 Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 488 (16B1)  
53-4301 Rat IgG1 K Isotype Control Alexa Fluor® 488

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