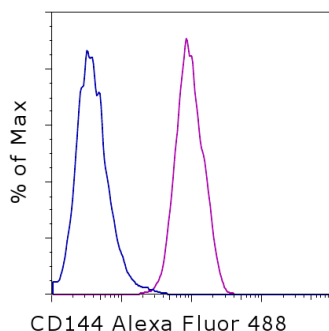


Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 488

Catalog Number: 53-1449

Also known as: Cadherin 5

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with Mouse IgG1 K Isotype Control Alexa Fluor® 488 (cat. 53-4714) (blue histogram) or Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 488 (purple histogram). Total viable cells were used for analysis.

Product Information

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

Catalog Number: 53-1449

Clone: 16B1

Concentration: 5 µL (0.25 µg)/test

Host/Isotype: Mouse 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 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 pre-titrated and tested by flow cytometric analysis of Human Umbilical Vein Endothelial Cells (HUVEC). This can be used at 5 µL (0.25 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.

References

Rajesh D, Chinnasamy N, Mitalipov SM, Wolf DP, Slukvin I, Thomson JA, Shaaban AF. Differential requirements for hematopoietic commitment between human and rhesus embryonic stem cells. *Stem Cells*. 2007 Feb;25(2):490-9. (16B1, Immunocytofluorescence, PubMed)

Suzuki S, Sano K, and Tanihara H. 1991. Diversity of the cadherin family: evidence for eight new cadherins in nervous tissue. *Cell Regul* 2: 261-270.

Breviario F, Caveda L, Corada M, Martin-Padura I, Navarro P, Golay J, Introna M, Gulino D, Lampugnani MG, and Dejana E. 1995. Functional properties of human vascular endothelial cadherin (7B4/Cadherin-5), an endothelium-specific cadherin. *Arterioscler Thromb Vasc Biol* 15: 1229-1239.

Vincent PA, Xiao K, Buckley KM, and Kowalczyk AP. 2004. VE-Cadherin: adhesion at arm's length. *Am J Physiol Cell*

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Physiol 286: 987-997.

Related Products

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488 (P3.6.2.8.1)

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