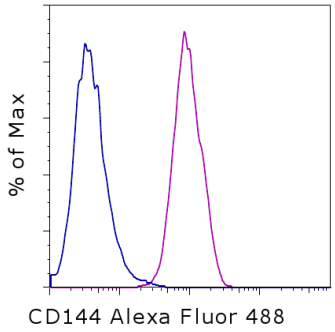
Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 488

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
REF **Catalog Number:** 53-1449
Clone: 16B1
Concentration: 5 uL (0.25 ug)/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.
LOT **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 10^5 to 10^8 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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