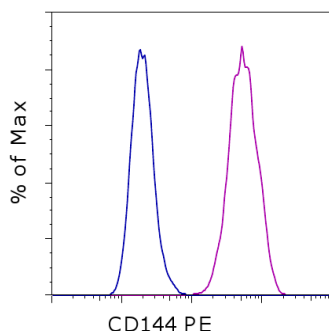


Anti-Human CD144 (VE-Cadherin) PE

Catalog Number: 12-1449

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 0.5 ug of Mouse IgG1 K Isotype Control PE (cat. 12-4714) (blue histogram) or 0.5 ug of Anti-Human CD144 (VE-Cadherin) PE (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD144 (VE-Cadherin) PE



Catalog Number: 12-1449

Clone: 16B1

Concentration: 0.2 mg/mL

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.

Applications Tested

This 16B1 antibody has been tested by flow cytometric analysis of Human Umbilical Vein Endothelial Cells (HUVEC). 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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.

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Vincent PA, Xiao K, Buckley KM, and Kowalczyk AP. 2004. VE-Cadherin: adhesion at arm's length. Am J Physiol Cell Physiol 286: 987-997.

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)