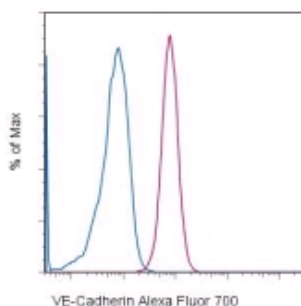


## Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 700

Catalog Number: 56-1449

Also Known As: VECadherin, Cadherin 5, Cadherin5

RUO: For Research Use Only



Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with Mouse IgG1  $\kappa$  Isotype Control Alexa Fluor® 700 (cat. 56-4714) (open histogram) or Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 700 (filled histogram). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Human CD144 (VE-Cadherin) Alexa Fluor® 700


**REF** Catalog Number: 56-1449

Clone: 16B1


Concentration: Suffix -71/73, 20  $\mu$ L (0.5  $\mu$ g)/test; Suffix -41/42, 5  $\mu$ L (0.5  $\mu$ g)/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.

The Alexa Fluor® 700 emits at 723 nm and can be excited with the He-Ne 633 laser. Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

### Applications Tested

This 16B1 antibody has been pre-titrated and tested by flow cytometric analysis of Human Umbilical Vein Endothelial Cells (HUVEC). Refer to catalog number suffix on the vial for amount to use per test: 71/73 are 20  $\mu$ L 0.5  $\mu$ g per test; whereas 41/42 are 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) 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.

### 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.

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