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Log Fluorescence Intensity

Human umbilical vein endothelial

cells, HUVEC, stained with purified BV9 conjugated with PE

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Product Data Sheet

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Purified anti-human CD144 (VE-Cadherin)

Catalog # / Size: 348501 / 25 µg

348502 / 100 µg

Clone: BV9

Isotype: Mouse IgG2a, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested

WB, IF, IP - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the

suggested use of this reagent is ≤0.5 μg per million cells in 100 μl volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application Notes: Additional reported applications (for the relevant formats) include: Western Blot^{1,2}, immunofluorescence microscopy^{1,3}

, immunoprecipitation^{1,4}, block angiogenesis in vitro^{4,5}, inhibit VE-cadherin reorganization⁴, and induce endothelial

Application References: 1. Almagro S, et al. 2010. Mol. Cell Biol. 30:1703. (WB IF IP)

2. Zhang F, et al. 2004. J. Biol. Chem. 279:11760. (WB)

3. Iurlaro M, et al. 2004. Am. J. Pathol. 165:181. (IF) 4. Corada M, et al. 2001. Blood 97:1679. (IP Block)

5. Kooistra M, et al. 2005. FEBS 579:4966. (Block)

Description: CD144, also known as VE-cadherin and cadherin-5, is a 140 kD glycoprotein which is composed of 5 extracellular cadherin repeats and a highly conserved cytoplasmic tail region. It is a calcium-dependent transmembrane cell-cell

adhesion molecule localized at the intercellular boundaries of endothelial cells, hematopoietic stem cells, and perineurial cells. It functions as a classic cadherin by mediating homophilic adhesion and functions as a plasma membrane attachment site for the cytoskeleton. CD144 is thought to play a role in vascular development,

permeability, and remodeling.

Antigen References: 1. Taddei A, et al. 2008. Nat. Cell Biol. 10:923. 2. Gavard J, et al. 2006. Nat. Cell Biol. 8:1223.

3. Kim I, et al. 2005. Blood 106:903.

4. Suzuki S, et al. 1991. Cell Regul. 2:261.

Related Products: Product

Purified Mouse IgG2a, κ Isotype Ctrl

Cell Staining Buffer

RBC Lysis Buffer (10X)

Clone MOPC-173

FC, ICC, IF, IHC, IP, WB FC, ICC, ICFC



Application



