

PE anti-human CD144 (VE-Cadherin)

Catalog # / Size: 348505 / 25 tests
348506 / 100 tests

Clone: BV9

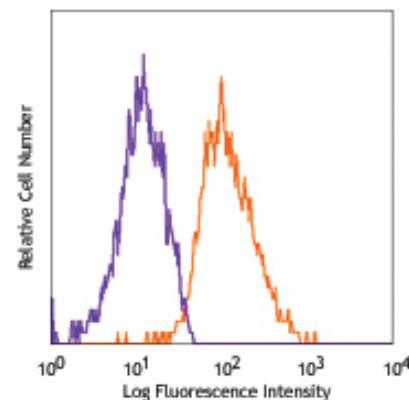
Isotype: Mouse IgG2a, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human umbilical vein endothelial cells, HUVEC, stained with BV9 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: Western Blot^{1,2}, immunofluorescencemicroscopy^{1,3}, immunoprecipitation^{1,4}, block angiogenesis in vitro^{4,5}, inhibit VE-cadherin reorganization⁴, and induce endothelial cell apoptosis⁴.

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
PE Mouse IgG2a, κ Isotype Ctrl (FC)
Cell Staining Buffer
RBC Lysis Buffer (10X)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
MOPC-173

Application
FC
FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



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