PE/Dazzle[™] 594 anti-human CD144 (VE-Cadherin)

Catalog # / Size:	2342595 / 25 tests 2342600 / 100 tests	
Clone:	BV9	xux A
lsotype:	Mouse IgG2a, к	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzleâ,,¢ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzleâ,,¢ 594 and unconjugated antibody.	Participation of the second se
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Human umbilical vein endothelial cells (HUVEC) were stained with
Concentration:	Lot-specific	CD144 (clone BV9) PE/Dazzle™ 594 (filled histogram) or mouse IgG2a

Applications:

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Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Application Notes:	Clone BV9 has been shown to block VE-cadherin, causing a redistribution of VE-cadherin away from intracellular junctions. ⁶ This clone binds to EC3-EC4 region in the extracellular domain of human VE-cadherin. ⁷ Additional reported applications (for the relevant formats) include: Western Blotting ^{1,2} , immunofluorescence microscopy ^{1,3} , immunoprecipitation ^{1,4} , blocking angiogenesis <i>in vitro</i> ^{4,5} , inhibiting VE-cadherin reorganization ⁴ , and inducing endothelial cell apoptosis ⁴ .
Application References:	 Taddei A, et al. 2008. Nat. Cell Biol. 10:923. Gavard J, et al. 2006. Nat. Cell Biol. 8:1223. Kim I, et al. 2005. Blood 106:903. Suzuki S, et al. 1991. Cell Regul. 2:261.
Description:	CD144, also known as VE-cadherin and cadherin-5, is a 140 kD glycoprotein which is composed of five 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.

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Antigen	1. Taddei A, et al. 2008. Nat. Cell Biol. 10:923.	
References:	2. Gavard J, et al. 2006. Nat. Cell Biol. 8:1223.	
	3. Kim I, et al. 2005. Blood 106:903.	
	4. Suzuki S, <i>et al.</i> 1991. <i>Cell Regul.</i> 2:261.	

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