SONY

Product Data Sheet

PE/Cy7 anti-mouse CD144 (VE-cadherin)

Catalog # / Size: 1290075 / 25 µg
1290080 / 100 µg

Clone: BV13

Isotype: Rat IgG1, κ

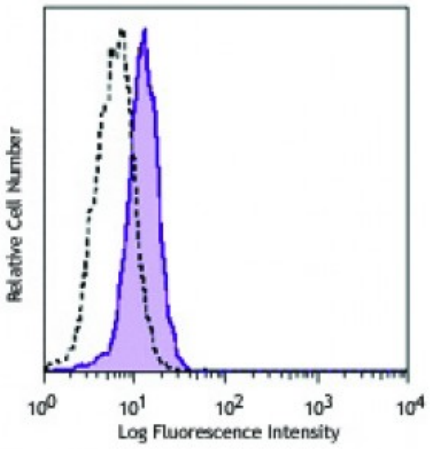
Immunogen: VE-cadherin-Ig fusion protein

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

Concentration: 0.2



Mouse endothelial cells bEnd.3 were stained with CD144 (clone BV13) PE/Cy7 (filled histogram) or rat IgG1 PE/Cy7 isotype control (open histogram).

Applications:

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 ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Clone BV13 recognizes an epitope between aa 45 and 56, and has a binding affinity of 5-15 nM.5 Additional reported applications (for relevant formats) include: Western blotting1, blocking of cell interactions *in vivo*1, and immunofluorescence microscopy4.

Application References:

1. Corada M, *et al.* 1999. *P. Natl. Acad. Sci. USA* 96:9815. (WB, Block)
2. Liao F, *et al.* 2000. *Cancer Res.* 60:6805. (FC)
3. Crosby CV, *et al.* 2005. *Blood* 105:2771. (FC)
4. Liao F, *et al.* 2002. *Cancer Res.* 62:2567. (IF)
5. May C, *et al.* 2005. *Blood* 105:4337. (epitope)

Description: CD144, also known as vascular endothelial-cadherin (VE-cadherin), is a 120 kD member of the type II Cadherin family. It is an endothelial specific hemophilic adhesion molecule involved in endothelial cell survival, migration, contact-dependent growth inhibition, and homophilic adhesion. VE-cadherin is essential for maintaining the integrity of the endothelial barrier *in vivo*.

Antigen References:

1. Allport JR, *et al.* 2002. *J. Leukocyte Biol.* 71:821.
2. Hirashima M, *et al.* 2009. *Blood* 93:1253.
3. Matsuyoshi N, *et al.* 1997. *Proc. Assoc. Am. Physicians* 109:362.
4. Matsumura K

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