BioLegend
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Product Data Sheet

PE anti-mouse CD144 (VE-cadherin)

Catalog # / Size: 138105 / 25 µg
138106 / 100 µg

Clone: VECD1

Isotype: Rat IgG1, κ

Immunogen: VE-cadherin protein

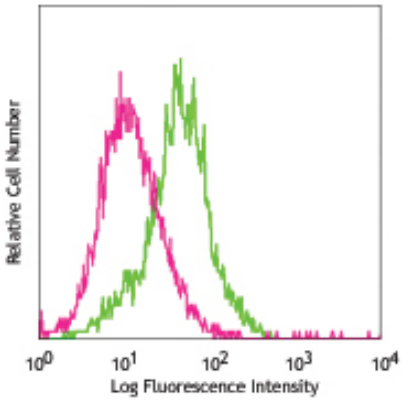
Reactivity: Mouse

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.

Concentration: 0.2 mg/ml

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



Mouse endothelial cell b.End.3 stained with VECD1 PE

Applications:

Applications: FC - *Quality tested*

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 ≤1.0 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 relevant formats) include: Immunoprecipitation[1], Western Blot[1], functional assay[2, 3] by inhibiting vascular endothelial cell-cell interactions and immunocytochemistry staining of cultured cell lines[4].

Application References:
1. Allport JR, *et al.* 2002. *J. Leukoc. Biol.* 71:821. (IP WB)
2. Hirashima M, *et al.* 2009. *Blood* 93:1253. (Block)
3. Matsuyoshi N, *et al.* 1997. *Proc. Assoc. Am. Physicians* 109:362. (Block)
4. Matsumura K, *et al.* 2003. *Blood* 101:1367. (IF)
5. Hirashima M, *et al.* 2009. *Blood* 101:2261. (FC)
6. Tanaka Y, *et al.* 2012. *PNAS.* 109:4515. PubMed.

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. Gotsch U, *et al.* 1997. *J. Cell Sci.* 110:583.
2. Kataoka H, *et al.* 1997. *Dev. Growth Differ.* 39:729.

Related Products:

Product	Clone	Application
PE Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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