

Product Data Sheet

Alexa Fluor® 647 anti-mouse CD144 (VE-cadherin)

Catalog # / Size: 138107 / 25 µg
138108 / 100 µg

Clone: VECD1

Isotype: Rat IgG1, κ

Immunogen: VE-cadherin protein

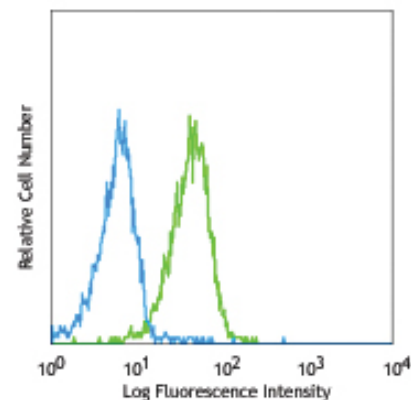
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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 and protected from prolonged exposure to light. **Do not freeze.**



Mouse endothelial cell bEnd.3
stained with VECD1 Alexa Fluor®
647

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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for relevant formats) include: Immunoprecipitation¹, Western Blot¹, functional assay²,³ by inhibiting vascular endothelial cell-cell interactions and immunocytochemistry staining of cultured cell lines⁴.

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)

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
Alexa Fluor® 647 Rat IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
TruStain fcX™ (anti-mouse CD16/32)

Clone
RTK2071

93

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



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