

Product Data Sheet

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

Catalog # / Size: 138005 / 25 µg

138006 / 100 µg

Clone: BV13 Isotype: Rat IgG1

Immunogen: VE-cadherin-Ig fusion 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

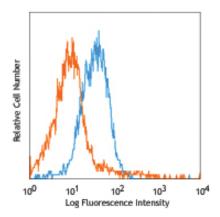
unconjugated Alexa Fluor® 647.

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 cells b.End.3 stained with BV13 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: 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 vivo¹, and

immunofluorèscence 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.

Hirashima M, et al. 2009. Blood 93:1253.
Matsuyoshi N, et al. 1997. Proc. Assoc. Am. Physicians 109:362.

 Matsumura K, et al. 2003. Blood 101:1367.
Hirashima M, et al. 2009. Blood 101:2261. 6. Gotsch U, et al. 1997. J. Cell Sci. 110:583.

7. Kataoka H, et al. 1997. Dev. Growth Differ. 39:729.

Related Products: Product Clone Application

Alexa Fluor® 647 Rat IgG1, κ Isotype Ctrl FC, ICFC RTK2071 FC, ICC, ICFC Cell Staining Buffer RBC Lysis Buffer (10X) TruStain fcX™ (anti-mouse CD16/32) 93



