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Product Data Sheet

PE anti-mouse CD144 (VE-cadherin)

Catalog # / Size: 138009 / 25 µg
138010 / 100 µg

Clone: BV13

Isotype: Rat IgG1

Immunogen: VE-cadherin-Ig fusion protein

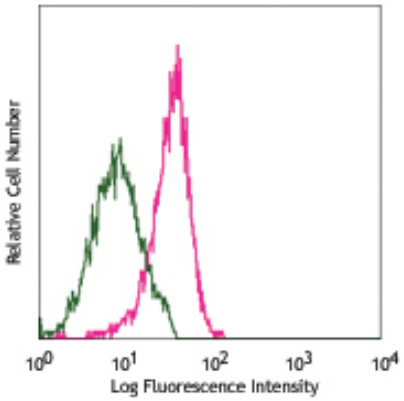
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with 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 cells bEnd.3 stained with PE anti-mouse CD144 (BV13 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: 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 blotting[1], blocking of cell interactions in vivo[1], and immunofluorescence microscopy[4].*

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, et al. 2003. Blood 101:1367.
5. 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
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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