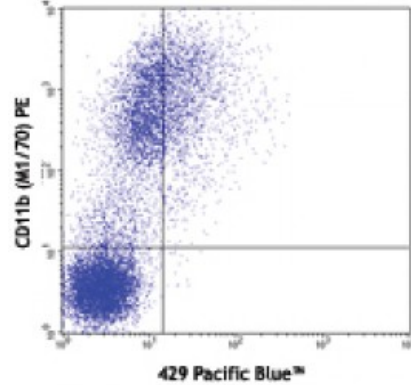


Pacific Blue™ anti-mouse CD106

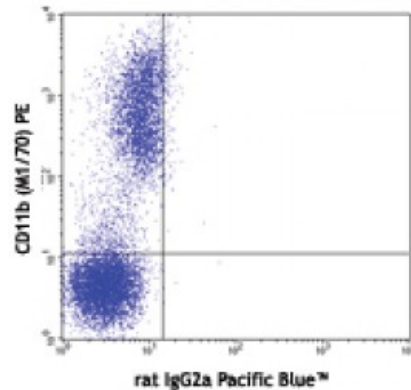
Catalog # / Size: 1128610 / 100 µg
Clone: 429 (MVCAM.A)
Isotype: Rat IgG2a, κ
Immunogen: Mouse preadipose cell line PA6
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



C57BL/6 bone marrow cells stained with 429 Pacific Blue™ and CD11b (M1/70) PE

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 ≤ 0.25 microg per 10⁶ cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



C57BL/6 bone marrow cells stained with rat IgG2a isotype control Pacific Blue™ and CD11b (M1/70) PE

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining^{2,3,5-7} of acetone-fixed frozen sections, blocking^{4,5,8} of ligand binding *in vitro* and *in vivo*, and immunoprecipitation¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 105708).

Application References:
 1. Kinashi T, *et al.* 1995. *J. Leukoc. Biol.* 57:168. (IP)
 2. Koni PA, *et al.* 2001. *J. Exp. Med.* 193:741. (IHC)
 3. Ishiyama N, *et al.* 1998. *Pathobiology* 66:274. (IHC)
 4. Kinashi T, *et al.* 1994. *Blood Cells* 20:25. (Block)

5. Baron JL, *et al.* 1994. *J. Clin. Invest.* 93:1700. (Block IHC)
 6. Buck CA, *et al.* 1996. *Cell Adhes. Commun.* 4:69. (IHC)
 7. Hata H, *et al.* 2004. *J. Clin. Invest.* 114:582. (IHC)
 8. Meunier MC, *et al.* 2005. *Nature Medicine* 11:1222. (Block) [PubMed](#)
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Description: CD106 is a 110 kD glycosylphosphatidylinositol (GPI)-linked transmembrane protein, also known as VCAM-1 and INCAM-110. It is constitutively expressed on bone marrow stromal cells, myeloid progenitors, splenic dendritic cells, activated endothelial cells, as well as some lymphocytes. CD106 expression can be upregulated on endothelial cells by inflammatory cytokines. CD106 is involved in adhesion and acts as a counter-receptor for VLA-4 (α_4/β_1 integrin) and LPAM-1 (α_4/β_7 integrin). The 429 antibody has been reported to partially block VCAM-1-mediated binding.

- Antigen**
- References:**
1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook* Academic Press.
 2. Kinashi T, *et al.* 1995. *J. Leukoc. Biol.* 57:168.
 3. Bevilacqua MP. 1993. *Annu. Rev. Immunol.* 11:767.
 4. Koni PA, *e*