

Alexa Fluor® 647 anti-mouse CD106

Catalog # / Size: 1128560 / 100 µg
1128555 / 25 µg

Clone: 429 (MVCAM.A)

Isotype: Rat IgG2a, κ

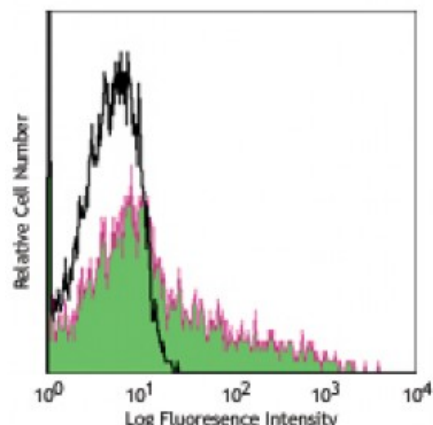
Immunogen: Mouse preadipose cell line PA6

Reactivity: Mouse

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5

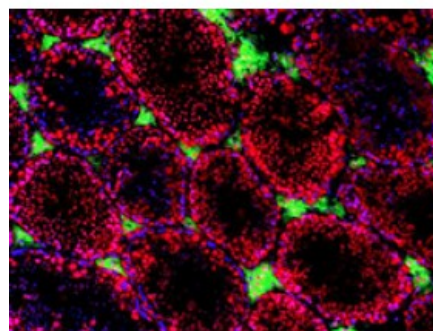


C57BL/6 bone marrow myeloid cells stained with 429 Alexa Fluor® 647

Applications:

Applications: Immunofluorescence

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 10^6 cells in 100 microL volume. For immunohistochemical staining on frozen tissue sections, the suggested use is 5-10 microg/mL. It is recommended that the reagent be titrated for optimal performance for other applications.



C57BL/6 mouse frozen testis section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 microg/ml of CD106 (clone 429 (MVCAM.A)) Ale

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

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](#)
9. Nakagawa R, *et al.* 2013. *J. Immunol.* 190:3309. [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*