Alexa Fluor® 647 anti-mouse / rat CD29

Catalog # / Size: $1111065 / 25 \mu g$

1111070 / 100 µg

Clone: HMβ1-1

Isotype: Hamster IgG

Immunogen: Purified mouse VLA-4 ($\alpha_4\beta_1$,

CD49d/CD29)

Reactivity: Mouse,Rat

Preparation: The antibody was purified by affinity

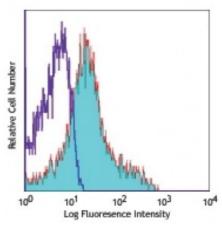
chromatography, and conjugated with Alexa Fluor® 647 under optimal

conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with HMß1-1 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. It is recommended that the reagent be titrated for optimal performance for other

applications.

* 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:

immunoprecipitation1, immunohistochemistry4 of acetone-fixed frozen sections, in vitro blocking of the adhesion of mouse tumor cell lines to extracellular matrix proteins and in vitro inhibition of T cell proliferative responses1, and in vivo inhibition of neutrophil migration2. The LEAF $^{\text{m}}$ purified antibody (Endotoxin <0.1 EU/µq. Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat.

No. 102210).

Application References:

1. Noto K, et al. 1995. Int. Immunol. 7:835.

2. Ridger VC, et al. 2001. J. Immunol. 166:3484.

3. Jia W, et al. 2005. Blood 106:3854. PubMed

4. Economopoulou M, et al. 2005. Blood 106:3831.

5. Lawson BR, et al. 2007. J. Immunol. 178:5366.

6. Eisenmann KM, et al. 2007. J. Biol. Chem. doi:10.1074/jbc.M703243200.PubMed

7. Hayashi Y, et al. 2008. Am J Physiol Gastrointest Liver Physiol. 294:G778.

PubMed

8. Kim DT, et al. 2008. Blood 111:2929. PubMed

9. Hayashi Y, et al. 2008. J Pharmacol Exp Ther. 326:523. PubMed

10. Carlson TR, et al. 2008. Development. 135:2193. PubMed

11. Sangaletti S, et al. 2008. Cancer Res. 68:9050. (Block) PubMed

12. Takano T, et al. 2012. J Neurosci. 32:6587. PubMed.

Description: CD29 is a 130 kD protein, also known as integrin β_1 , VLA- β chain, or GPIIa. It is a

member of the integrin family, expressed broadly on leukocytes, endothelial cells,

smooth muscle, and epithelial cells. In association with CD49a-f, CD29 forms the VLA-1 through VLA-6 complexes, respectively. It plays an important role in cell-cell or cell-matrix interaction. The HMß1-1 antibody reacts with both mouse and rat CD29. It is able to block cell adhesion and inhibit T cell proliferation.

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1. Noto K, et al. 1995. Int. Immunol. 7:835.