

APC anti-mouse / rat CD29

Catalog # / Size: 1111075 / 25 µg
1111080 / 100 µg

Clone: HMβ1-1

Isotype: Hamster IgG

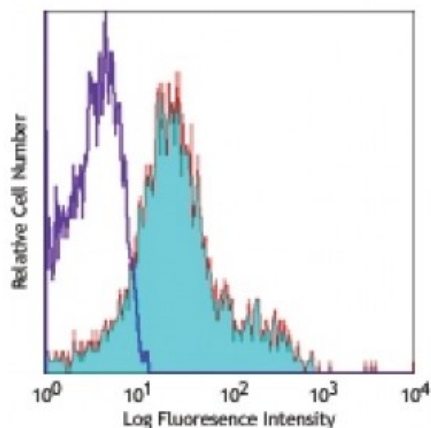
Immunogen: Purified mouse VLA-4 (α₄β₁, CD49d/CD29)

Reactivity: Mouse,Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

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

Concentration: 0.2



C57BL/6 mouse splenocytes stained with HMβ1-1 APC

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 ≤ 0.25µg per 10⁶ cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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[™] purified antibody (Endotoxin <0.1 EU/µg, 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. Parameswaran R, *et al.* 2009. *Clin Immunol.* 131:223. [PubMed](#)
 13. Saenz FR, *et al.* 2014. *PLoS One.* 9:97666. [PubMed](#)
 14. Toda S, *et al.* 2014. *Blood.* 123:3963. [PubMed](#)
 15. Roarty K, *et al.* 2015. *J Cell Sci.* 208:351. [PubMed](#)

Description: CD29 is a 130 kD protein, also known as integrin β₁, VLA-β chain, or GPIIa. It is a

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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 HMβ1-1 antibody reacts with both mouse and rat CD29. It is able to block cell adhesion and inhibit T cell proliferation.

- Antigen**
References:
1. Noto K, *et al.* 1995. *Int. Immunol.* 7:835.
 2. Springer TA. 1990. *Nature* 346:425.