

**APC/Cy7 anti-mouse/rat CD29**

**Catalog # / Size:** 1111130 / 100 µg  
1111125 / 25 µg

**Clone:** HMβ1-1

**Isotype:** Hamster IgG

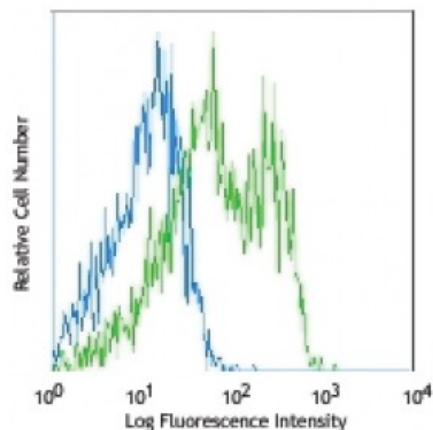
**Immunogen:** Purified mouse VLA-4 ( $\alpha_4\beta_1$ ,  
CD49d/CD29)

**Reactivity:** Mouse,Rat

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.

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

**Concentration:** 0.2



C57BL/6 bone marrow cells stained with HMβ1-1 APC/Cy7

**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  $\leq 0.25$  microg per  $10^6$  cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

- 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. Elsarrai HS, *et al.* 2013. *J Cell Sci.* 126:2446. [PubMed](#)

**Description:** CD29 is a 130 kD protein, also known as integrin  $\beta_1$ , VLA- $\beta$  chain, or GPIIb. 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 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.