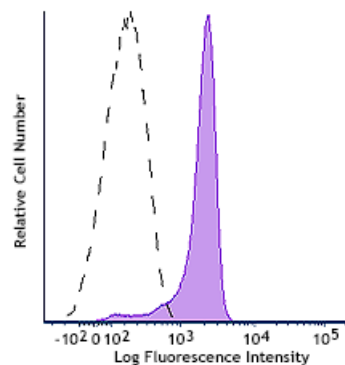


**PE/Dazzle™ 594 anti-mouse/rat CD61**

**Catalog # /** 1121605 / 25 µg  
**Size:** 1121610 / 100 µg  
**Clone:** 2C9.G2 (HMβ3-1)  
**Isotype:** Hamster IgG  
**Immunogen:** Vitronectin receptor protein from the mouse T-cell hybridoma 2B4  
**Reactivity:** Mouse, Rat  
**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.2 mg/ml



C57BL/6 mouse bone marrow cells were stained with CD61 (clone 2C9.G2 (HMβ3-1)) PE/Dazzle™ 594 (filled histogram) or Armenian hamster IgG PE/Dazzle™ 594 isotype control (open histogram).

**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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: blocking of ligand binding<sup>1-4</sup>, activation of α<sub>v</sub> β<sub>3</sub> integrin signaling<sup>5</sup>, and immunohistochemical staining of acetone-fixed frozen sections.

- Application References:**
1. Kieffer N, *et al.* 1990. *Annu. Rev. Cell Biol.* 6:329. (Block)
  2. Piali L, *et al.* 1995. *J. Cell Biol.* 130:451. (Block)
  3. Ashkar S, *et al.* 2000. *Science* 287:860. (Block)
  4. Schultz JF, *et al.* 1995. *J. Biol. Chem.* 270:11522. (Block)
  5. Moulder K, *et al.* 1991. *J. Exp. Med.* 173:343. (Activ)
  6. Carlson TR, *et al.* 2008.135:2193. [PubMed](#)
  7. Yamaji D, *et al.* 2009. *Genes Dev.* 23:2382. [PubMed](#)

**Description:** CD61 is a 110 kD integrin  $\beta$  chain also known as  $\beta_3$  integrin or gpIIb. It associates with the integrin  $\alpha_v$  chain (CD51) to form the vitronectin receptor. In addition, CD61 can associate with the integrin  $\alpha_{IIb}$  chain (CD41) to form the gpIIb/IIIa complex. CD61 is expressed on platelets, megakaryocytes, endothelium, smooth muscle, a subset of B cells, myeloid cells, osteoclasts, and mast cells. CD61, in conjunction with CD41 or CD51, mediates adhesion to fibronectin, fibrinogen, vitronectin, thrombospondin, and von Willebrand factor. Leukocyte-endothelial adhesion is mediated by the binding of  $\alpha_v/\beta_3$  integrin or vitronectin receptor to CD31 (PECAM-1).

**Antigen**  
**References:**

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook. Academic Press.
2. Phillips DR, *et al.* 1991. *Cell* 65:359.
3. Felding-Habermann B, *et al.* 1993. *Curr. Opinion Cell Biol.* 5:864.