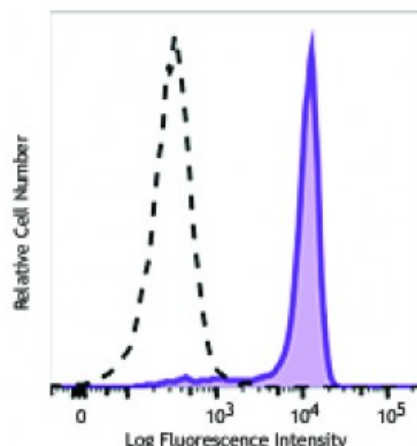


PE/Cy7 anti-mouse/rat CD61

Catalog # / Size:	1121590 / 100 µg 1121585 / 25 µg
Clone:	2C9.G2 (HMβ3-1)
Isotype:	Hamster IgG
Immunogen:	Vitronectin receptor protein from the mouse T-cell hybridoma 2B4
Reactivity:	Mouse,Rat
Preparation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse bone marrow cells were stained with CD61 (clone 2C9.G2) PE/Cy7 (filled histogram) or Armenian hamster IgG PE/Cy7 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 microg per million cells in 100 microL 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: blocking of ligand binding ¹⁻⁴ , activation of $\alpha_v \beta_3$ integrin signaling ⁵ , and immunohistochemical staining of acetone-fixed frozen sections. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104310).
Application References:	<ol style="list-style-type: none"> 1. Kieffer N, <i>et al.</i> 1990. <i>Annu. Rev. Cell Biol.</i> 6:329. (Block) 2. Piali L, <i>et al.</i> 1995. <i>J. Cell Biol.</i> 130:451. (Block) 3. Ashkar S, <i>et al.</i> 2000. <i>Science</i> 287:860. (Block) 4. Schultz JF, <i>et al.</i> 1995. <i>J. Biol. Chem.</i> 270:11522. (Block) 5. Moulder K, <i>et al.</i> 1991. <i>J. Exp. Med.</i> 173:343. (Activ) 6. Carlson TR, <i>et al.</i> 2008.135:2193. PubMed 7. Yamaji D, <i>et al.</i> 2009. <i>Genes Dev.</i> 23:2382. PubMed

Description:	CD61 is a 110 kD integrin β chain also known as β_3 integrin or gpIIb. It associates with the integrin α_v chain (CD51) to form the vitronectin receptor. In addition, CD61 can associate with the integrin α_{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 α_v/β_3 integrin or vitronectin receptor to CD31 (PECAM-1).
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- 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.