

PerCP/Cy5.5 anti-mouse/rat CD61

Catalog # / Size: 1121595 / 25 µg
1121600 / 100 µg

Clone: 2C9.G2 (HMβ3-1)

Isotype: Hamster IgG

Reactivity: Mouse,Rat

Concentration: 0.2

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.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for the relevant formats) include: blocking of ligand binding¹⁻⁴, activation of α_v β₃ integrin signaling⁵, 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).

Description: CD61 is a 110 kD integrin β chain also known as β₃ integrin or gpIIIa. 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/β₃ integrin or vitronectin receptor to CD31 (PECAM-1).