

PE/Dazzle™ 594 anti-human CD61

Catalog # / Size: 2282125 / 25 tests
2282130 / 100 tests

Clone: VI-PL2

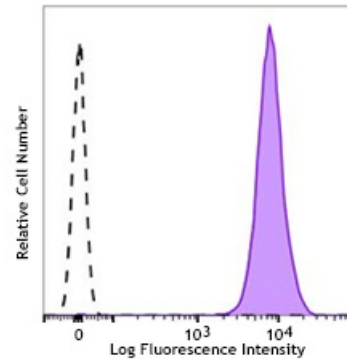
Isotype: Mouse IgG1, κ

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Concentration: Lot-specific



Human peripheral blood platelets were stained with CD61 (clone VI-PL2) PE/Dazzle™ 594 (filled histogram), or mouse IgG1, κ 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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. 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: Western blotting and immunohistochemical staining of frozen tissue sections.

- Application References:**
1. Davies J, et al. 1989. *J. Cell Biol.* 109:1817.
 2. Roberts M, et al. 2004. *Mol. Cell. Biol.* 24:1505.
 3. Ciarlet M, et al. 2002. *J. Virol.* 76:1109.

Description: CD61, also known as integrin β3 and glycoprotein IIIa (gpIIIa), is a 90 kD type I integral transmembrane glycoprotein. It is a member of the integrin family, associating with platelet gpIIb (CD41) to form CD41/CD61 complex and with integrin αV (CD51) to form αV/β3 (CD51/CD61) integrin. CD41/CD61 is expressed on platelets and megakaryocytes, and plays a role in platelet activation and aggregation through interaction with fibrinogen, fibronectin, vWF, and other RGD-containing adhesion molecules. CD51/CD61 is expressed on platelets, osteoclasts, fibroblasts, macrophages, and some tumor cells involved in tumor metastasis, and in adenovirus infection through binding to RGD motif in extracellular matrix proteins.

- Antigen References:**
1. Zola H, et al. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers.*