

Alexa Fluor® 647 anti-human CD61

Catalog # / 2282040 / 100 tests

Size: 2282035 / 25 tests

Clone: VI-PL2

Isotype: Mouse IgG1, κ

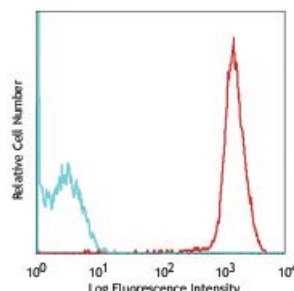
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: Lot-specific

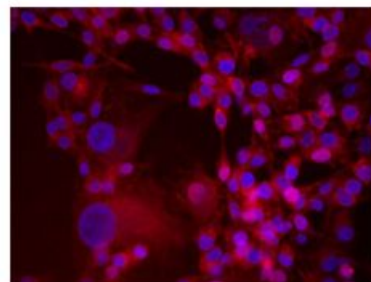


Human peripheral blood platelets stained with VI-PL2 Alexa Fluor® 647

Applications:

Applications: Flow Cytometry, Other

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 volume or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes: Additional reported applications (for the relevant formats) include: Western blotting and immunohistochemical staining of frozen tissue sections.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

MDA-MB435 breast cancer cell line was stained with 20 µg/mL anti-human CD44 Alexa Fluor® 647 and nuclear counterstained with DAPI. Images were acquired with a TE300 fluorescence microscope with a 20x objective. Data provided by: Er Liu and John Nolan, La Jolla Bioengineering Institute

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 $\beta 3$ 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 $\alpha V/\beta 3$ (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 1. Zola H, *et al.* 2007. Leukocyte and Stromal Cell Molecules: The CD Markers.
References: