SONY

Product Data Sheet

Brilliant Violet 421™ anti-human CD11a/CD18 (LFA-1)

Catalog # / Size: 2417035 / 25 tests
2417040 / 100 tests

Clone: m24

Isotype: Mouse IgG1, κ

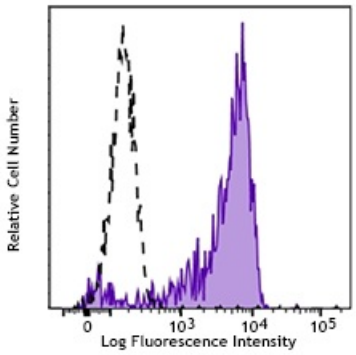
Immunogen: Fibronectin-purified human monocytes

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

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

Concentration: Lot-specific



PMA-stimulated human peripheral blood granulocytes were stained with CD11/CD18 (clone m24) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ 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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen

Application Notes: Clone m24 can be used as a reporter of the activation state of integrin receptor in response to exposure with Mg^{2+} or Mn^{2+}.

Application References:

1. Hogg N. *et al.* 1985. *Cell Immunol.* 92:247.
2. McDowall A. *et al.* 2003. *J. Clin. Invest.* 111:51.

Description: CD11/CD18 belongs to the integrin family of proteins. It is heterodimeric cell surface receptor expressed on all leukocytes. CD18, in association with integrin α chain CD11a, CD11b, and CD11c forms LFA-1, Mac-1, and $\alpha_X\beta_2$, respectively, and plays an important role in leukocyte adhesion. CD11/CD18 complexes bind ICAM-1 (CD54), ICAM-2 (CD102), ICAM-3 (CD50), iC3b, and fibrinogen. Clone m24 binds the extended/open high affinity conformation of CD11a/CD18. The antibody can be used as a reporter of the activation state of the integrin receptor in response to exposure to Mg^{2+} or Mn^{2+}.

Antigen References:

1. Anderson D, *et al.* 1987. *Annu. Rev. Med.* 38:175.
2. Springer T. 1994. *Cell* 76:301.

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Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com