SONY

Product Data Sheet

Brilliant Violet 421™ anti-human CD36

Catalog # / Size: 2281145 / 25 tests
2281150 / 100 tests

Clone: 5-271

Isotype: Mouse IgG2a, κ

Immunogen: Human platelets

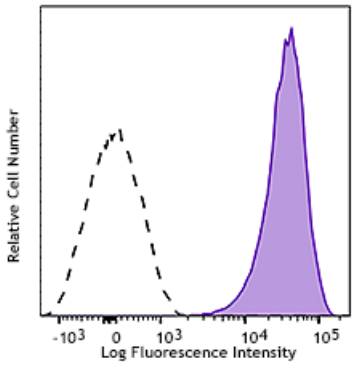
Reactivity: Human

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).

Workshop Number: V CD40.4

Concentration: Lot-specific



Human peripheral blood platelets were stained with CD36 (clone 5-271) Brilliant Violet 421™ (filled histogram) or mouse IgG2a, 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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.

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 Group Ltd.

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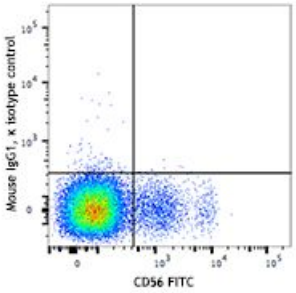

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Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence2.

Application References:

1. Stelner E, *et al.* 2006. *J. Cell Sci.* 119:459.
2. Stewart DA, *et al.* 2012. *Mol. Cancer Res.* 10:727. (IF)

Description: CD36 is an 85 kD integral membrane glycoprotein, also known as GPIIIb, or GPIV. It is expressed on various epithelial and endothelial cells as well as erythrocytes, platelets, macrophages/monocytes and some macrophage-derived dendritic cells. CD36 functions as a scavenger receptor, binding thrombospondin, long chain fatty acids, oxidized LDL, collagen type I, IV, and V as well as apoptotic cells. The 5-271 antibody has been reported to be useful for flow cytometry.

Antigen References:

1. Hogg N, *et al.* 1984. *Immunology* 53-753.
2. Greenwalt DE, *et al.* 1992. *Blood* 80:1105.
3. Armsesilla AL, *et al.*1994. *J. Biol. Chem.* 269:18985.
4. Endemann G, *et al.* 1993. *J. Biol. Chem.* 268:11811.

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