SONY

Product Data Sheet

APC/Cyanine7 anti-human CD36

Catalog # / Size: 2281070 / 100 tests
2281065 / 25 tests

Clone: 5-271

Isotype: Mouse IgG2a, κ

Immunogen: Human platelets

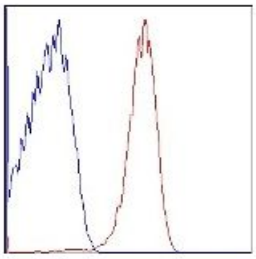
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions.

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

Workshop Number: VI MR23

Concentration: Lot-specific

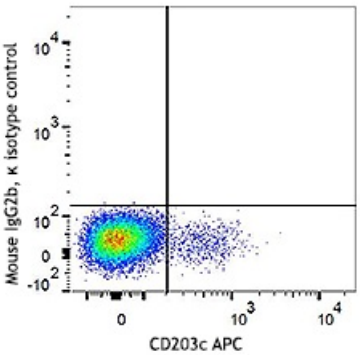


Human peripheral blood platelets stained with 5-271 APC/Cy7

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or 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: immunofluorescence[7].

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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