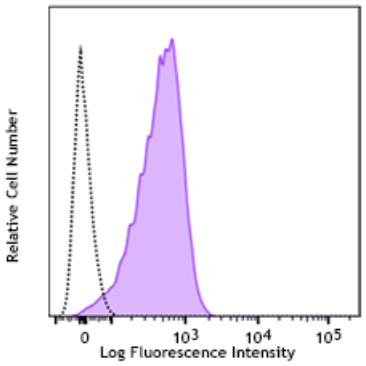
SONY

Product Data Sheet

Alexa Fluor® 700 anti-human CD36

Catalog # / Size:	2281180 / 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 Alexa Fluor® 700 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 anti-human CD36 (clone 5-271) Alexa Fluor® 700 (filled histogram) or mouse IgG2a, κ Alexa Fluor® 700 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. * Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
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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