

Spark Violet™ 423 anti-human CD36 Antibody

Catalog# / Size	336243 / 25 tests 336244 / 100 tests
Clone	5-271
Regulatory Status	RUO
Other Names	GPIIb, GPIV
Isotype	Mouse IgG2a, κ
Description	CD36 is an 85 kD integral membrane glycoprotein, also known as GPIIb, 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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human platelets
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark Violet™ 423 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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. * Spark Violet™ 423 has a maximum excitation of 400 nm and a maximum emission of 415 nm.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence2.
Application References	1. Stelner E, <i>et al.</i> 2006. <i>J. Cell Sci.</i> 119:459. 2. Stewart DA, <i>et al.</i> 2012. <i>Mol. Cancer Res.</i> 10:727. (IF)
(PubMed link indicates BioLegend citation)	
RRID	AB_3675059 (BioLegend Cat. No. 336243) AB_3675059 (BioLegend Cat. No. 336244)

Antigen Details

Structure	Integral membrane protein, CD36 family, single chain glycoprotein, 85-113 kD
Distribution	Expressed in various epithelial and endothelial cells, erythrocytes, platelets, monocytes/macrophages, some macrophage-derived dendritic cells
Function	Scavenger receptor for thrombospondin, long chain fatty acids, anionic phospholipids, oxidized LDL, collagen types I, IV and V. Involved in recognition and phagocytosis of apoptotic cells, cell adhesion.
Ligand/Receptor	Thrombospondin, anionic phospholipids, oxidized LDL, collage types I, IV, and V
Cell Type	Dendritic cells, Endothelial cells, Epithelial cells, Erythrocytes, Macrophages, Monocytes, Platelets
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Hogg N, <i>et al.</i> 1984. <i>Immunology</i> 53-753. 2. Greenwalt DE, <i>et al.</i> 1992. <i>Blood</i> 80:1105. 3. Armsesilla AL, <i>et al.</i> 1994. <i>J. Biol. Chem.</i> 269:18985. 4. Endemann G, <i>et al.</i> 1993. <i>J. Biol. Chem.</i> 268:11811.
Gene ID	948

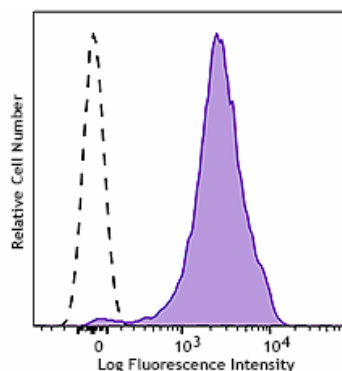
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD36, APC anti-human CD36, APC/Cyanine7 anti-human CD36, FITC anti-human CD36, PE anti-human CD36, Purified anti-human CD36 (Maxpar® Ready), Biotin anti-human CD36, APC/Fire™ 750 anti-human CD36, PE/Cyanine7 anti-human CD36, PerCP/Cyanine5.5 anti-human CD36, TotalSeq™-A0407 anti-human CD36, TotalSeq™-C0407 anti-human CD36, Brilliant Violet 421™ anti-human CD36, Alexa Fluor® 488 anti-human CD36, TotalSeq™-B0407 anti-human CD36, Alexa Fluor® 700 anti-human CD36 Antibody, TotalSeq™-D0407 anti-human CD36, GMP FITC anti-human CD36, GMP APC/Fire™ 750 anti-human CD36, Spark YG™ 581 anti-human CD36, Spark Red™ 718 anti-human CD36 (Flexi-Fluor™), Spark Blue™ 550 anti-human CD36, Spark Violet™ 423 anti-human CD36, PE/Fire™ 640 anti-human CD36, Spark PLUS UV395™ anti-human CD36, Pacific Blue™ anti-human CD36 Antibody

Product Data



Human peripheral blood platelets were stained with anti-human CD36 (clone 5-271) Spark Violet™ 423 (filled histogram) or mouse IgG2a, κ Spark Violet™ 423 isotype control (open histogram).

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