

Pacific Blue™ anti-human CD36 Antibody

Catalog# / Size	336251 / 25 tests 336252 / 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 Pacific Blue™ 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	<p>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.</p> <p>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence2.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none">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)

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	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

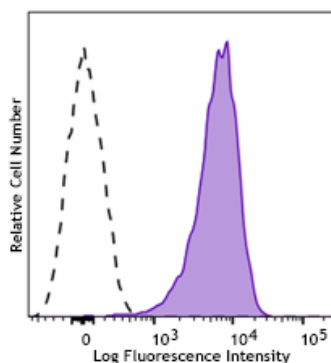
Related Protocols

- [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) Pacific Blue™ (filled histogram) or mouse IgG2a, κ Pacific Blue™ isotype control (open histogram).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended

use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587