

Brilliant Violet 421™ anti-human CD63 Antibody

Catalog# / Size	353029 / 25 tests 353030 / 100 tests
Clone	H5C6
Regulatory Status	RUO
Workshop	HCDM listed
Other Names	LIMP, LAMP-3, Melanoma-associated antigen (ME491), PItgp40, gp55
Isotype	Mouse IgG1, κ
Description	CD63 is a 53 kD type III lysosomal glycoprotein also known as LIMP, LAMP-3, gp55, and melanoma-associated antigen (ME491). CD63 is a member of the tetraspan transmembrane superfamily (TM4SF) protein expressed on activated platelets, monocytes/macrophages, endothelium, fibroblasts, osteoclasts, and smooth muscle cells. CD63 may be involved in platelet activation and is thought to function as a transmembrane adaptor protein. CD63 has been shown to associate with CD9, CD81, VLA-3, and VLA-6.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	T cell line HPB-ALL
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 Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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.</p> <p>*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.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ¹ , immunofluorescence ² , and immunoprecipitation ¹ .

- Application References**
1. Hildreth JE, *et al.* 1991. *Blood* 77:121. (IP, WB)
 2. Beatty WL, *et al.* 2006. *J. Cell Sci.* 119:350. (IF)

(PubMed link indicates BioLegend citation)

- Product Citations**
1. López-Sanz C, *et al.* 2022. *STAR Protoc.* 3:101755. [PubMed](#)
 2. Koupenova M, *et al.* 2019. *Nat Commun.* 10:1780. [PubMed](#)

RRID

AB_2687003 (BioLegend Cat. No. 353029)
AB_2687004 (BioLegend Cat. No. 353030)

Antigen Details

Structure	Tetraspan transmembrane superfamily (TM4SF), type III lysosomal glycoprotein, 53 kD
Distribution	Activated platelets, monocytes, macrophages, endothelium, fibroblasts, osteoclasts, and smooth muscle
Function	Platelet activation
Interaction	CD9, CD81, VLA-3, and VLA-6
Cell Type	B cells, Endothelial cells, Fibroblasts, Macrophages, Monocytes, Osteoclasts, Platelets
Biology Area	Cell Adhesion, Cell Biology, Immunology
Molecular Family	Adhesion Molecules, CD Molecules

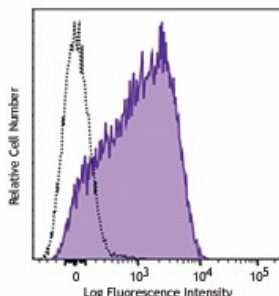
- Antigen References**
1. Azorsa DO, *et al.* 1991. *Blood* 78:280.
 2. Kishimoto T, *et al.* Eds. 1997. *Leukocyte Typing V1*. Oxford University Press New York.
 3. Hildreth JE, *et al.* 1991. *Blood* 77:121.
 4. Anzai N, *et al.* 2002. *Blood* 99:4413.

Gene ID [967](#)

Other Formats

PE anti-human CD63, FITC anti-human CD63, Pacific Blue™ anti-human CD63, APC anti-human CD63, PE/Cyanine7 anti-human CD63, Alexa Fluor® 647 anti-human CD63, Biotin anti-human CD63, PerCP/Cyanine5.5 anti-human CD63, PE/Dazzle™ 594 anti-human CD63, Brilliant Violet 421™ anti-human CD63, Brilliant Violet 650™ anti-human CD63, APC/Fire™ 750 anti-human CD63, Alexa Fluor® 700 anti-human CD63, Brilliant Violet 510™ anti-human CD63, Alexa Fluor® 594 anti-human CD63, TotalSeq™-A0404 anti-human CD63, Alexa Fluor® 488 anti-human CD63, Ultra-LEAF™ Purified anti-human CD63, Brilliant Violet 711™ anti-human CD63, Brilliant Violet 785™ anti-human CD63, APC/Cyanine7 anti-human CD63, TotalSeq™-B0404 anti-human CD63, TotalSeq™-C0404 anti-human CD63, Brilliant Violet 605™ anti-human CD63 Antibody, PE/Cyanine5 anti-human CD63 Antibody

Product Data



Thrombin-activated human peripheral blood platelets were stained with CD63 (clone H5C6) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

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