

Alexa Fluor® 647 anti-human CD63 Antibody

Catalog# / Size	353015 / 25 tests 353016 / 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 Alexa Fluor® 647 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	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. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ¹ , immunofluorescence ² , and immunoprecipitation ¹ .
Application References (PubMed link indicates BioLegend citation)	1. Hildreth JE, <i>et al.</i> 1991. <i>Blood</i> 77:121. (IP, WB) 2. Beatty WL, <i>et al.</i> 2006. <i>J. Cell Sci.</i> 119:350. (IF)
Product Citations	

1. Emmons TR, *et al.* 2021. *Cancer Immunol Res.* 9:790. [PubMed](#)
2. Helmink BA, *et al.* 2020. *Nature.* 577:549. [PubMed](#)
3. Ambrose AR, *et al.* 2020. *Proc Natl Acad Sci U S A.* 117:23717. [PubMed](#)
4. Halder LD, *et al.* 2020. *Nat Commun.* 2.077083333. [PubMed](#)

RRID AB_2561662 (BioLegend Cat. No. 353015)
 AB_2561663 (BioLegend Cat. No. 353016)

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	<ol style="list-style-type: none"> 1. Azorsa DO, <i>et al.</i> 1991. <i>Blood</i> 78:280. 2. Kishimoto T, <i>et al.</i> Eds. 1997. <i>Leukocyte Typing V1</i>. Oxford University Press New York. 3. Hildreth JE, <i>et al.</i> 1991. <i>Blood</i> 77:121. 4. Anzai N, <i>et al.</i> 2002. <i>Blood</i> 99:4413.

Gene ID [967](#)

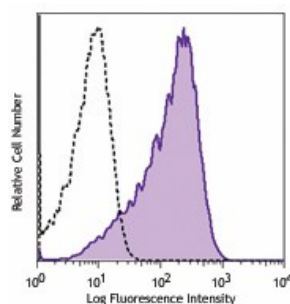
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

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) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ Alexa Fluor® 647 isotype control (open histogram).

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