

PE anti-human CD63 Antibody

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|--------------------------|---|
| Catalog# / Size | 353003 / 25 tests 353004 / 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

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| 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 PE 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. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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. Margaroli C, <i>et al.</i> 2021. <i>Cell Reports Medicine.</i> 2(4):100239. PubMed 2. Palkowitz AL, <i>et al.</i> 2021. <i>Adv Healthc Mater.</i> 10:e2100132. PubMed 3. Mastoridis S, <i>et al.</i> 2021. <i>Am J Transplant.</i> 21:2387. PubMed 4. Sung SE, <i>et al.</i> 2021. <i>Int J Mol Sci.</i> 22: . PubMed 5. Khan K, <i>et al.</i> 2022. <i>J Tissue Eng Regen Med.</i> 16:110. PubMed |

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7. Nazari-Shafti TZ, *et al.* 2020. *Biomolecules.* 10:00. [PubMed](#)
8. Balbi C, *et al.* 2021. *EBioMedicine.* 67:103369. [PubMed](#)
9. Schanin J, *et al.* 2022. *Commun Biol.* 5:1226. [PubMed](#)
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14. Plum T, *et al.* 2020. *Immunity.* 52(2):404-416. [PubMed](#)
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RRID AB_10896786 (BioLegend Cat. No. 353003)
 AB_10897809 (BioLegend Cat. No. 353004)

Antigen Details

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|---------------------------|---|
| 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](#)

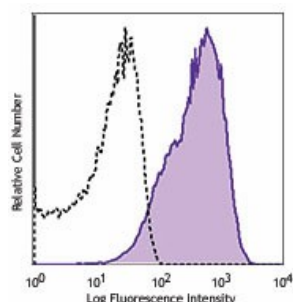
Related Protocols

[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) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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BioLegend Inc., 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