APC anti-human CD63 Antibody

Catalog# / Size	353007 / 25 tests 353008 / 100 tests
Clone	H5C6
Regulatory Status	RUO
Workshop	HCDM listed
Other Names	LIMP, LAMP-3, Melanoma-associated antigen (ME491), Pltgp40, 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 APC 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	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, *et al.* 1991. *Blood* 77:121. (IP, WB) 2. Beatty WL, *et al.* 2006. *J. Cell Sci.* 119:350. (IF)
Product Citations	1. Stojkov D, *et al.* 2017. J Cell Biol. 216:4073. PubMed 2. Ragni E, *et al.* 2021. Cells. 10: . PubMed 3. Bawazir M, *et al.* 2022. Front Immunol. 13:1033794. PubMed 4. Callahan SM, *et al.* 2021. Curr Protoc. 1:e294. PubMed 5. Ragni E, *et al.* 2022. Biomolecules. 12:. PubMed 6. Ragni E, *et al.* 2022. Pharmaceutics. 14:. PubMed

7. Risha Y, *et al.* 2020. Sci Rep. 10:13572. PubMed
8. Sarcar B, *et al.* 2022. Mol Cell Proteomics. :100438. PubMed
9. Callahan S, *et al.* 2020. Cell Microbiol. 22:e13210. PubMed
10. Brittain GC, *et al.* 2019. Sci Rep. 9:16039. PubMed
11. Mol S, *et al.* 2021. Int J Mol Sci. 22:. PubMed
12. Ragni E, *et al.* 2020. Stem Cell Res Ther. 165:11. PubMed
13. Bian B, *et al.* 2020. J Extracell Vesicles. 9:1748931. PubMed
14. Angeloni N, *et al.* 2016. Sci Rep. 6:22915. PubMed
15. Germic N, *et al.* 2021. Cells. 10:. PubMed
16. Han P, *et al.* 2020. Sci Adv. 6:eaaz1580. PubMed
17. Inglis H, *et al.* 2015. J Vis Exp. 97: 52484. PubMed
18. Papait A, *et al.* 2022. Front Immunol. 13:960909. PubMed

RRID

AB_10916393 (BioLegend Cat. No. 353007)
AB_10916521 (BioLegend Cat. No. 353008)

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

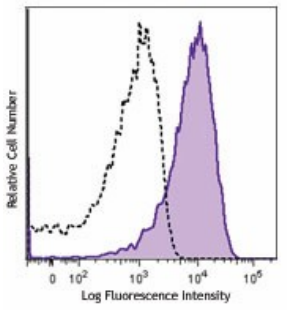
Related Protocols

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

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