Technical Data Sheet

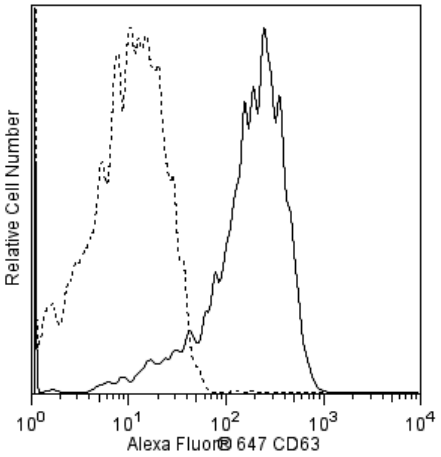
Alexa Fluor® 647 Mouse Anti-Human CD63

Product Information

Material Number:	**561983**
Alternate Name:	LAMP-3; ME491; MLA-1; Granulophysin; Ptgr40; NGA; gp55
Size:	50 tests
Vol. per Test:	5 µl
Clone:	H5C6
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V, P036
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The H5C6 monoclonal antibody reacts with CD63. CD63 is a 53 kDa, type III lysosomal glycoprotein, expressed on activated platelets, monocytes and macrophages. This molecule is also referred to in the literature as LIMP, gp55, melanoma-associated antigen ME491, Pltgp40, LAMP-3 and is a member of the tetraspan transmembrane 4 superfamily (TM4SF). It is widely expressed on surface and in the cytoplasm of various hematopoietic (monocytes, macrophages) and non-hematopoietic cells (endothelium, fibroblasts, osteoclasts, smooth muscle).



Flow cytometric analysis of CD63 expression on human peripheral blood platelets. *Platelets were isolated from fresh whole blood and activated by Thrombin (Sigma-Aldrich, Cat. No.T8885), and then fixed with 2% formaldehyde. After wash, the fixed platelets were stained with either Alexa Fluor® 647 Mouse Anti-Human CD63 antibody (Cat. No. 561983; solid line histogram) or with an Alexa Fluor® 647 Mouse IgG1, κ Isotype Control (Cat. No. 557714; dashed line histogram). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of platelets. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.*

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
557714	Alexa Fluor® 647 Mouse IgG1 κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. An isotype control should be used at the same concentration as the antibody of interest.

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4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
8. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
9. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

Azorsa DO, Hyman JA, Hildreth JE. CD63/Pltgp40: a platelet activation antigen identical to the stage-specific, melanoma-associated antigen ME491. *Blood.* 1991; 78(2):280-284. (Biology)

Hildreth JE, Derr D, Azorsa DO. Characterization of a novel self-associating Mr 40,000 platelet glycoprotein. *Blood.* 1991; 77(1):121-132. (Biology)

Kishimoto T, von dem Borne AEG, Goyert SM,et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens.* London: Garland Publishing; 1997. (Biology)

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995. (Clone-specific: Flow cytometry)