

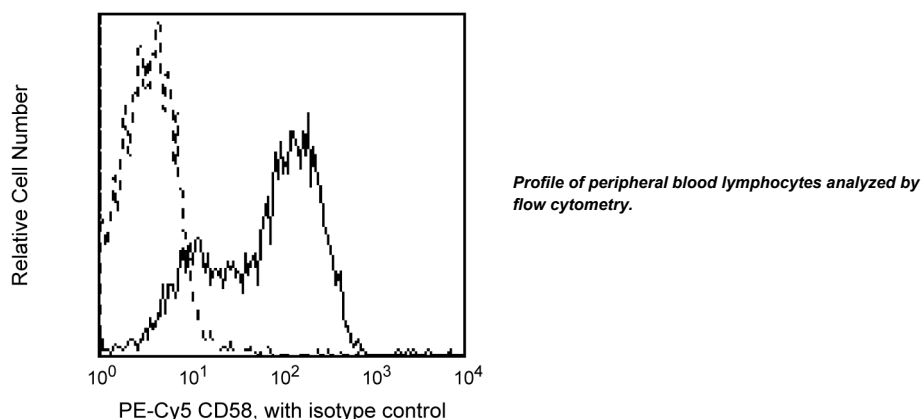
Technical Data Sheet

PE-Cy™5 Mouse Anti-Human CD58**Product Information**

Material Number:	551399
Alternate Name:	LFA-3
Size:	100 tests
Vol. per Test:	20 µl
Clone:	1C3 (AICD58.6)
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human Tested in Development: Dog
Workshop:	V S029
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 60-70 kDa membrane glycoprotein member of the immunoglobulin superfamily. CD58, also referred to as the lymphocyte function-associated antigen-3 (LFA-3), has a wide tissue distribution, being expressed on both hematopoietic and non-hematopoietic cells, including endothelial cells and fibroblasts. There are two isoforms of CD58: a glycosylphosphatidylinositol (GPI)-linked form and a transmembrane form. Both isoforms may be expressed in the same cell type. Erythrocytes, however, only have the GPI-linked isoform. CD58 interacts with CD2 during cell adhesion. This binding can enhance antigen-specific T-cell activation.

**Preparation and Storage**

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

The antibody was conjugated with PE-Cy5 (formerly known as BD Cy-Chrome™) under optimum conditions, and unconjugated antibody and free PE-Cy5 were removed.

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

Application Notes**Application**

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555575	PE-Cy™5 Mouse IgG2a, κ Isotype Control	100 tests	G155-178

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. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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3. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.
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6. 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.
7. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

- Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997. (Biology)
- Dengler TJ, Hoffmann JC, Knolle P, et al. Structural and functional epitopes of the human adhesion receptor CD58 (LFA-3). *Eur J Immunol*. 1992; 22(11):2809-2817. (Biology)
- Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995. (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)