

Technical Data Sheet

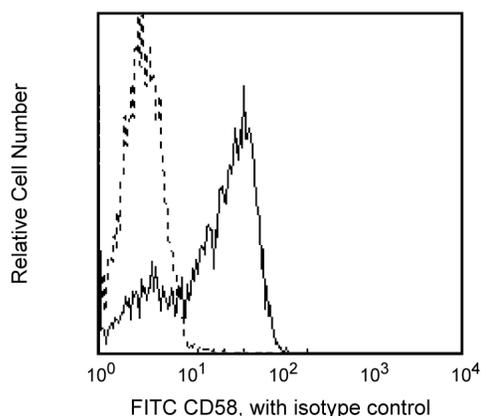
FITC Mouse Anti-Human CD58

Product Information

Material Number:	561907
Alternate Name:	LFA-3
Size:	25 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.



Profile of peripheral blood lymphocytes analyzed by flow cytometry.

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 with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555573	FITC Mouse IgG2a, κ Isotype Control	100 tests	G155-178
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

- 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).
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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3. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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)