

Technical Data Sheet

Purified Mouse Anti-Human CD58

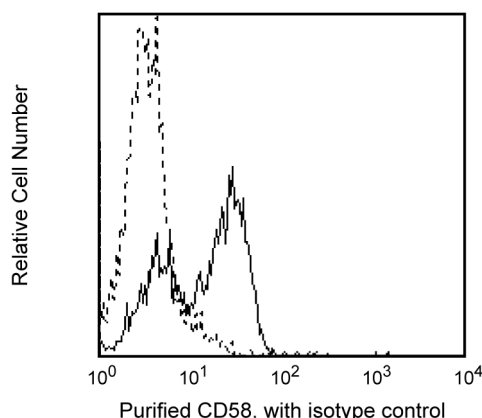
Product Information

Material Number:	555919
Alternate Name:	LFA-3
Size:	0.1 mg
Concentration:	0.5 mg/ml
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 $\leq 0.09\%$ 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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555571	Purified Mouse IgG2a Kappa Isotype Control	0.1 mg	G155-178

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
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.

References

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Clone-specific)
Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
Schlossman S, Boumsell L, et al, ed. *Leukocyte Typing IV*. New York: Oxford University Press; 1995.(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)