Technical Data Sheet

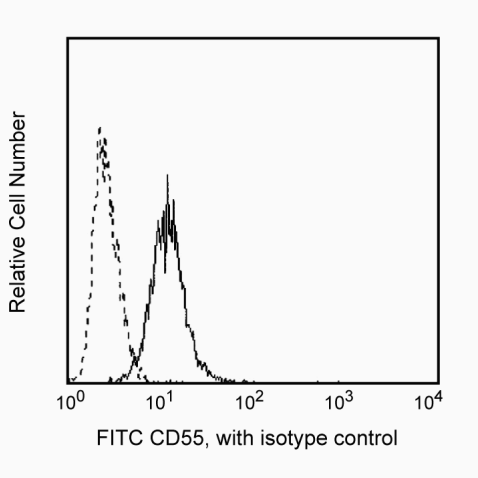
FITC Mouse Anti-Human CD55

Product Information

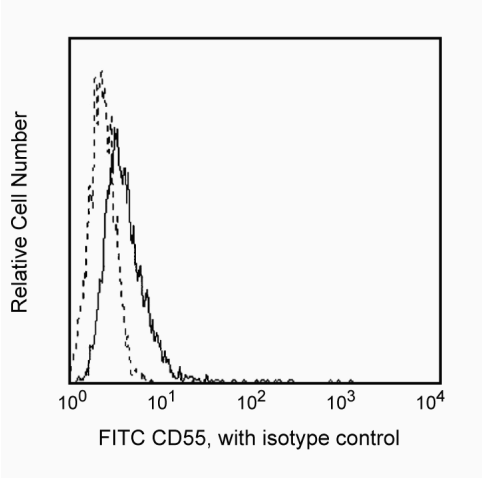
Material Number:	**561900**
Alternate Name:	DAF
Size:	25 tests
Vol. per Test:	20 µl
Clone:	IA10
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Workshop:	V BP352, S031
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with CD55, decay-accelerating factor (DAF), a glycosylphosphatidylinositol (GPI)-anchored single chain glycoprotein of approximately 70 kDa, expressed on hematopoietic cells. It has been suggested that the role of DAF is to protect cells from damage by autologous complement preventing the amplification steps of the complement cascade by interfering with the assembly of the C3-convertases, C4b2a and C3bBb, and the C5-convertases, C4b2a3b and C3bBb3b.



Profile of K562 cells expressing glycosylphosphatidylinositol (GPI) anchored protein analyzed on a FACScan (BDIS, San Jose, CA)



Profile of glycosylphosphatidylinositol (GPI) anchor-defective mutant cell line analyzed on a FACScan (BDIS, San Jose, CA)

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

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)

BD Biosciences

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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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. An isotype control should be used at the same concentration as the antibody of interest.

References

Kinoshita T, Medof ME, Silber R, Nussenzweig V. Distribution of decay-accelerating factor in the peripheral blood of normal individuals and patients with paroxysmal nocturnal hemoglobinuria. *J Exp Med.* 1985; 162(1):75-92. (Biology)

Loveland BE, Szokolai K, Johnstone RW, McKenzie IF. Coordinate functions of multiple complement regulating molecules, CD46, CD55, and CD59. *Transplant Proc.* 1994; 26(3):1070-1071. (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)