

Technical Data Sheet

Purified Mouse Anti-Human CD55

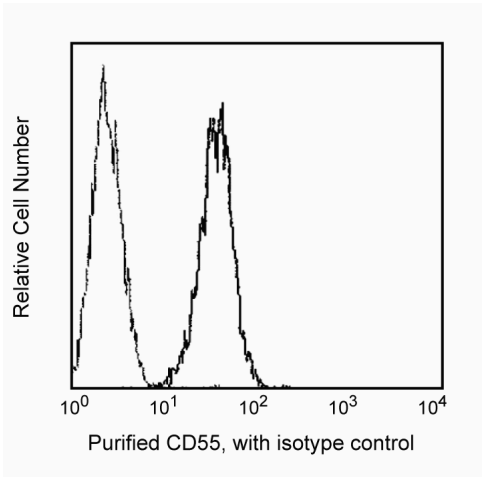
Product Information

Material Number:	555691
Alternate Name:	DAF
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	IA10
Isotype:	Mouse IgG2a κ
Reactivity:	QC Testing: Human
Workshop:	V BP352, S031
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

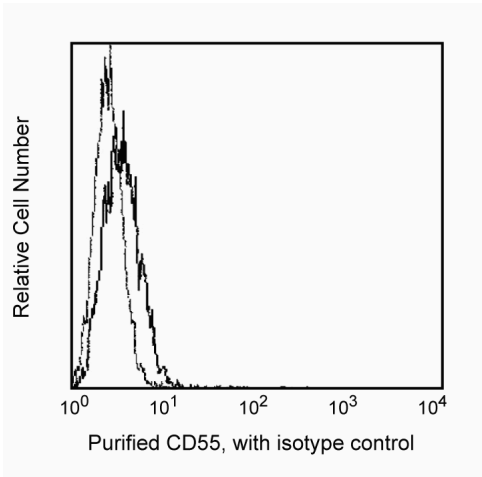
Description

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.

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 K562 cells expressing glycosylphosphatidylinositol (GPI) anchor protein analyzed by flow cytometry



Profile of glycosylphosphatidylinositol (GPI) anchor-defective mutant cell line analyzed by flow cytometry

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
Immunohistochemistry-frozen	Reported

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Suggested Companion Products

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms
555571	Purified Mouse IgG2a Kappa Isotype Control	0.1 mg	G155-178

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmlngen/protocols](http://www.bdbiosciences.com/pharmlngen/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)  
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)