

Technical Data Sheet

Purified Mouse Anti-Human CD59

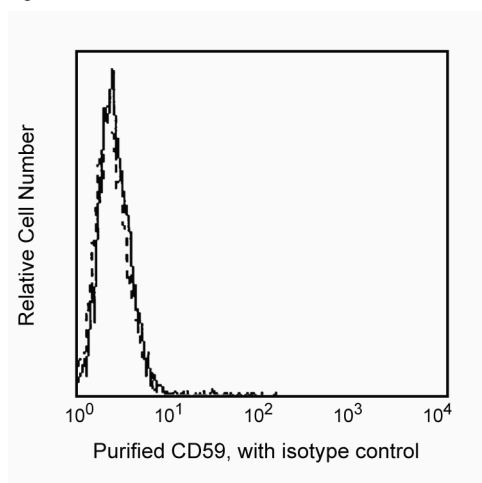
Product Information

Material Number:	555761
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	p282 (H19)
Isotype:	Mouse IgG2a κ
Reactivity:	QC Testing: Human
Workshop:	V S006
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

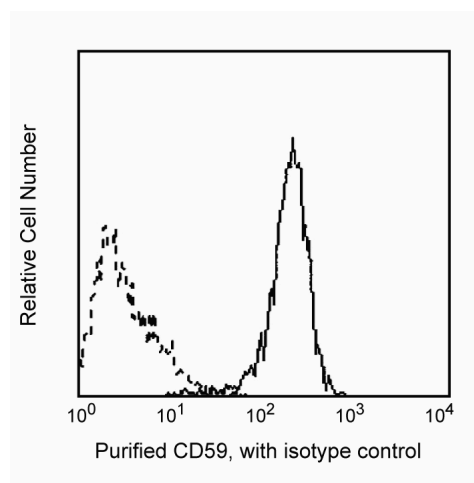
Description

Reacts with CD59, a 19 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein, expressed on hematopoietic and non-hematopoietic cells. Because of its role in interaction with complement activated products, CD59 has been termed membrane-attack-complex-inhibitory factor (MACIF), homologous restriction factor (HRF20), membrane inhibitor of reactive lysis (MIRL) and protectin. It inhibits the cytolytic activity of complement by binding to C8 and C9, thereby blocking the assembly of the membrane attack complex. CD59 also participates in spontaneous T-cell/erythrocyte adhesion, interacts with CD2 and plays a role in 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 glycosylphosphatidylinositol (GPI) anchor-defective mutant cell line analyzed on a FACScan (BDIS, San Jose, CA)



Profile of K562 cells expressing glycosylphosphatidylinositol (GPI) anchor protein 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
Immunofluorescence	Reported

Recommended Assay Procedure:

Note: This product is routinely tested on GPI anchor-defective mutant cell line as well as K562 cells.

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
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/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

- Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leukocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.(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)
- Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
- Davies A, Lachmann PJ. Membrane defence against complement lysis: the structure and biological properties of CD59. *Immunol Res*. 1993; 12(3):258-275. (Biology)
- Deckert M, Kubar J, Bernard A. CD58 and CD59 molecules exhibit potentializing effects in T cell adhesion and activation. *J Immunol*. 1992; 148(3):672-677. (Biology)
- Deckert M, Kubar J, Zoccola D, et al. CD59 molecule: a second ligand for CD2 in T cell adhesion. *Eur J Immunol*. 1992; 22(11):2943-2947.(Biology)
- Whitlow MB, Iida K, Stefanova I, Bernard A, Nussenzweig V. H19, a surface membrane molecule involved in T-cell activation, inhibits channel formation by human complement. *Cell Immunol*. 1990; 126(1):176-184.(Biology)