

Technical Data Sheet

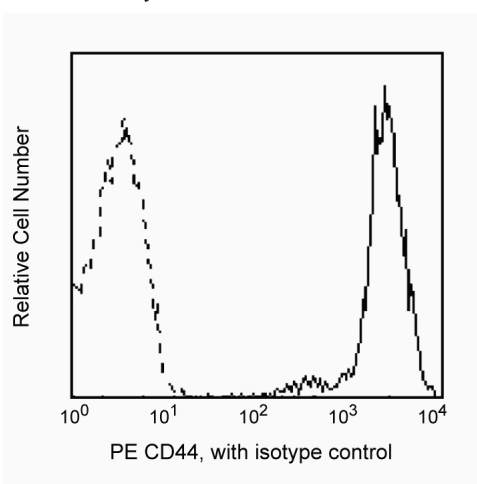
PE Mouse Anti-Human CD44

Product Information

Material Number:	550989
Alternate Name:	Pgp-1, H-CAM, Ly24
Size:	100 tests
Vol. per Test:	20 µl
Clone:	515
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with CD44, and 85 kDa glycoprotein that is expressed on leukocytes, erythrocytes, epithelial cells and weakly on platelets. CD44 is a member of the hyaladherin family of hyaluronan-binding proteins, with structural similarities to selectins. It has a functional role in cell migration, lymphocyte homing and adhesion during hematopoiesis and lymphocyte activation. 515 monoclonal antibody has been reported to be able to block cell adhesion to the hyaluronic acid.



Profile of peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry

Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

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. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. 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.

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6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Kansas GS, Muirhead MJ, Dailey MO. Expression of the CD11/CD18, leukocyte adhesion molecule 1, and CD44 adhesion molecules during normal myeloid and erythroid differentiation in humans. *Blood*. 1990; 76(12):2483-2492. (Biology)

Kansas GS, Tedder TF. Transmembrane signals generated through MHC class II, CD19, CD20, CD39, and CD40 antigens induce LFA-1-dependent and independent adhesion in human B cells through a tyrosine kinase-dependent pathway. *J Immunol*. 1991; 147(12):4094-4102. (Biology)

Patel DD, Liao HX, Haynes BF. CD44 workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEGK, ed. *Leukocyte Typing VI: White Cell Differentiation Antigens*. New York: Garland Publishing Inc; 1997:373-375. (Biology)