

Technical Data Sheet

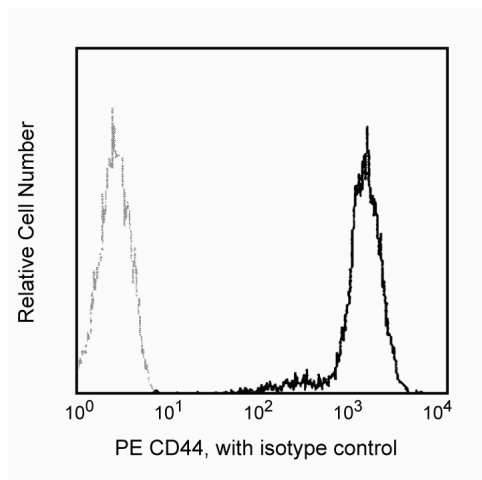
PE Mouse Anti-Human CD44

Product Information

Material Number:	561858
Alternate Name:	Phagocytic glycoprotein 1; Pgp-1; H-CAM; Hermes; ECMR III; HUTCH-1
Entrez Gene ID:	960
Size:	25 Tests
Vol. per Test:	20 µl
Clone:	G44-26 (also known as C26)
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	VI A092
Storage Buffer:	Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

The G44-26 monoclonal antibody specifically binds to the 80-95 kDa, glycosylated type I transmembrane protein, also known as phagocytic glycoprotein-1 (Pgp-1). CD44 is the receptor for hyaluronic acid. CD44 is expressed on leucocytes, erythrocytes, epithelial cells and weakly on platelets. CD44 is also called extracellular matrix receptor type III and has functional roles in cell migration, lymphocyte homing and adhesion during hematopoiesis and lymphocyte activation. This antibody is suitable for staining formalin-fixed, paraffin-embedded tissue sections using citrate buffer pretreatment. This antibody recognizes the epitope 1 of CD44 antigen according to the HLDA workshop studies.



Flow cytometric analysis of CD44 on human lymphocytes. Human whole blood was stained with either PE Mouse Anti-Human CD44 antibody (Cat. No. 555479/561858; bold line histogram) or PE Mouse IgG2b κ Isotype Control (Cat. No. 555743). The erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD FACScan™ Flow Cytometer System.

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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	(none)
555743	PE Mouse IgG2b κ Isotype Control	100 Tests	27-35
554657	Stain Buffer (BSA)	500 mL	(none)
555899	Lysing Buffer	100 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)

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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- μ l experimental sample (a test).
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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
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

Galandrini R, Galluzzo E, Albi N, Grossi CE, Velardi A. Hyaluronate is costimulatory for human T cell effector functions and binds to CD44 on activated T cells. *J Immunol.* 1994; 153(1):21-31. (Biology)

Günther U. CD44: a multitude of isoforms with diverse functions. *Curr Top Microbiol Immunol.* 1993; 184:47-63. (Biology)

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