Technical Data Sheet

BV650 Mouse Anti-Human CD24

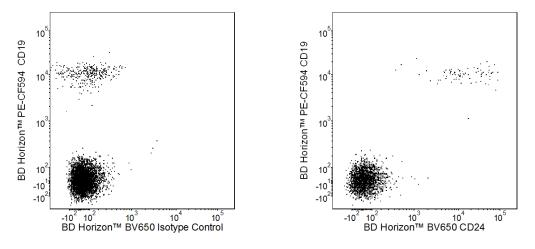
Product Information

Material Number:	563720
Alternate Name:	Heat Stable Antigen Homologue (HSA); Ba-1; CD24A
Size:	100 tests
Vol. per Test:	5 μl
Clone:	ML5
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Workshop:	V CD24.5
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The ML5 monoclonal antibody specifically binds to CD24. CD24 is a 35-45 kDa two-chain glycoprotein expressed on the surface of B cells, granulocytes and most B-cell lines. CD24 may play a role in regulation of B-cell proliferation and maturation.

The antibody was conjugated to BD Horizon[™] BV650 which is part of the BD Horizon[™] Brilliant Violet[™] family of dyes. This dye is a tandem fluorochrome of BD Horizon[™] BV421 with an Ex Max of 405-nm and an acceptor dye with an Em Max at 650-nm. BD Horizon[™] BV650 can be excited by the violet laser and detected in a filter used to detect APC-like dyes (eg, 660/20-nm filter). Due to the excitation and emission characteristics of the acceptor dye, there will be spillover into the APC and Alexa Fluor® 700 detectors. However, the spillover can be corrected through compensation as with any other dye combination.



Flow cytometric analysis of CD24 expression on human peripheral blood lymphocytes. Whole blood was stained with BD Horizon™ PE-CF594 Mouse Anti-Human CD19 antibody (Cat. No. 562294/562321) and either BD Horizon™ BV650 Mouse IgG2a, κ Isotype Control (Cat. No. 563417; Left Panel) or BD Horizon™ BV650 Mouse Anti-Human CD24 antibody (Cat. No. 563720; Right Panel). The erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). The two-color flow cytometric dot plots show the correlated expression patterns of CD24 versus CD19 for gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD™ LSR II 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 BD HorizonTM BV650 under optimum conditions, and unconjugated antibody and free BD HorizonTM BV650 were removed.

Application Notes

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Suggested Companion Products

Catalog Number	Name	Size	Clone	
554656	Stain Buffer (FBS)	500 ml	(none)	
563417	BV650 Mouse IgG2a, κ Isotype Control	50 µg	G155-178	
562294	PE-CF594 Mouse Anti-Human CD19	100 tests	HIB19	
562321	PE-CF594 Mouse Anti-Human CD19	25 tests	HIB19	
555899	Lysing Buffer	100 ml	(none)	
349202	BD FACS [™] Lysing Solution	100 ml	(none)	

Product Notices

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 1. sample (a test).

Source of all serum proteins is from USDA inspected abattoirs located in the United States. 2.

- An isotype control should be used at the same concentration as the antibody of interest. 3.
- 4 Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR. 5.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before 6. discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
- 8. Brilliant Violet[™] 650 is a trademark of Sirigen.

References

Chtanova T, Tangye SG, Newton R, Frank N, Hodge MR, Rolph MS, Mackay CR. T follicular helper cells express a distinctive transcriptional profile, reflecting their role as non-Th1/Th2 effector cells that provide help for B cells. J Immunol. 2004; 173(1):68-78. (Clone-specific: Flow cytometry)

McMichael AJ, Beverly PCL, Gilks W, et al, ed. Leukocyte Typing III: White Cell Differentiation Antigens. New York: Oxford University Press; 1987. (Biology) Salamone MC, Rosselot C, Salamone GV, Barboza M, Kado M, Fainboim L. Antibodies recognizing CD24 LAP epitope on human T cells enhance CD28 and IL-2 T cell proliferation. J Leukoc Biol. 2001; 69(2):215-223. (Clone-specific: Flow cytometry)

Schlossman S, Boumell L, et al, ed. Leucocyte Typing V. New York: Oxford University Press; 1995. (Clone-specific: Flow cytometry)

Zola H, Swart B, Nicholson I, Voss E. Leukocyte and Stromal Cell Molecules. The CD Markers. Hoboken, New Jersey: John Wiley & Sons, Inc.; 2007:1-581. (Biology)

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