

## Technical Data Sheet

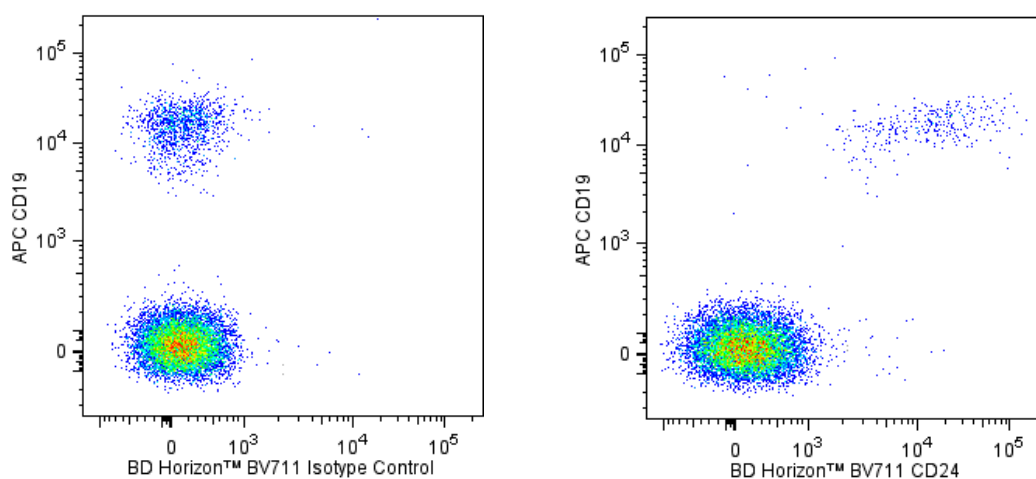
**BV711 Mouse Anti-Human CD24****Product Information**

<b>Material Number:</b>	<b>563401</b>
<b>Alternate Name:</b>	Heat Stable Antigen Homologue (HSA); Ba-1; CD24A
<b>Size:</b>	100 tests
<b>Vol. per Test:</b>	5 µl
<b>Clone:</b>	ML5
<b>Isotype:</b>	Mouse IgG2a, κ
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	V CD24.5
<b>Storage Buffer:</b>	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™ BV711 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 711-nm. BD Horizon™ BV711 can be excited by the violet laser and detected in a filter used to detect Cy™5.5 / Alexa Fluor® 700-like dyes (eg, 712/20-nm filter). Due to the excitation and emission characteristics of the acceptor dye, there may be moderate spillover into the Alexa Fluor® 700 and PerCP-Cy™5.5 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 APC Mouse Anti-Human CD19 antibody (555415/561742) and either BD Horizon™ BV711 Mouse IgG2a, κ Isotype Control (Cat. No. 563345; Left Panel) or BD Horizon™ BV711 Mouse Anti-Human CD24 antibody (Cat. No. 563401/563371; 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 Horizon™ BV711 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV711 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)
563371	BV711 Mouse Anti-Human CD24	25 tests	ML5
563345	BV711 Mouse IgG2a, $\kappa$ Isotype Control	50 $\mu$ g	G155-178
555415	APC Mouse Anti-Human CD19	100 tests	HIB19
561742	APC Mouse Anti-Human CD19	25 tests	HIB19
555899	Lysing Buffer	100 ml	(none)

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ l experimental sample (a test).
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. 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.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
8. Cy is a trademark of Amersham Biosciences Limited.
9. Brilliant Violet™ 711 is a trademark of Sirigen.

## References

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. (Biology)

Schlossman S, Boumell L, et al, ed. *Leukocyte 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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