

## Technical Data Sheet

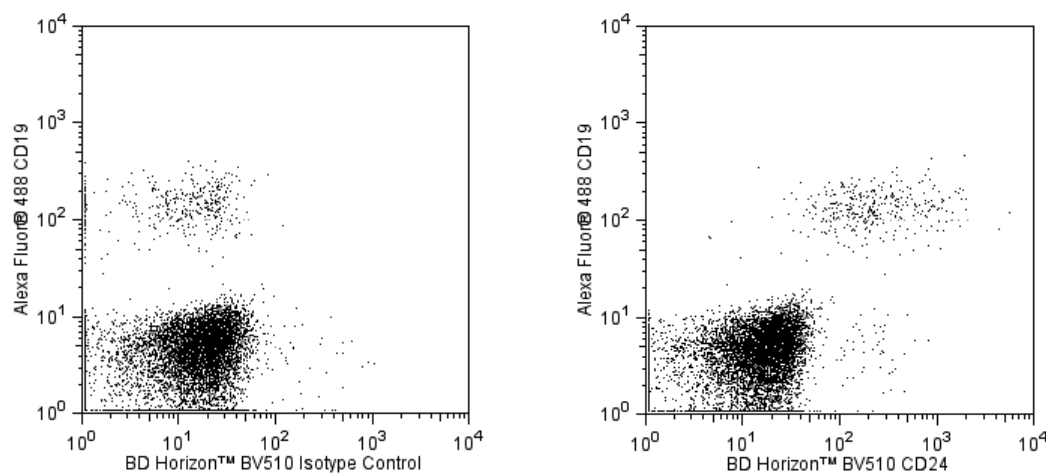
**BV510 Mouse Anti-Human CD24****Product Information**

<b>Material Number:</b>	<b>563035</b>
<b>Alternate Name:</b>	Heat Stable Antigen Homologue (HSA); Ba-1; CD24A
<b>Size:</b>	50 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™ BV510 which is part of the BD Horizon™ Brilliant Violet™ family of dyes. With an Ex Max of 405-nm and Em Max at 510-nm, BD Horizon™ BV510 can be excited by the violet laser and detected in the BD Horizon V500 (525/50-nm) filter set. BD Horizon™ BV510 conjugates are useful for the detection of dim markers off the violet laser.



**Two-color flow cytometric analysis of CD24 expression on human peripheral blood cells.** Human whole blood was stained with Alexa Fluor® 488 Mouse Anti-Human CD19 (Cat. No. 557697) and with either BD Horizon™ BV510 Mouse IgG2a, κ Isotype Control (Cat. No. 563027; Left Panel) or BD Horizon™ BV510 Mouse Anti-Human CD24 antibody (Cat. No. 563035; 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 CD19 versus CD24 (or Ig Isotype control staining) for gated events with the forward and side-light scattering characteristics of intact lymphoid cells. 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™ BV510 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV510 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)
563027	BV510 Mouse IgG2a, $\kappa$ Isotype Control	50 $\mu$ g	G155-178
557697	Alexa Fluor® 488 Mouse Anti-Human CD19	100 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. 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.
6. 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).
7. Brilliant Violet™ 510 is a trademark of Sirigen.
8. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.

## 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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