Technical Data Sheet

BV711 Mouse Anti-Human CD5

Product Information

Material Number: 563170

Alternate Name: CD5 antigen (p56-62); T1; Tp67; LEU1; Lymphocyte antigen T1/Leu-1

 Size:
 50 tests

 Vol. per Test:
 5 μl

 Clone:
 UCHT2

 Immunogen:
 Human T cells

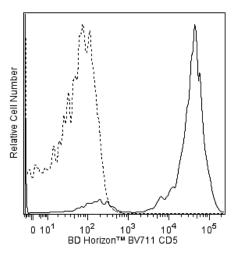
Isotype:Mouse (BALB/c) IgG1, κ Reactivity:QC Testing: HumanWorkshop:I T4; III T094, T518

Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The UCHT2 monoclonal antibody specifically binds to CD5. CD5 is a 67 kDa single-chain, type 1 transmembrane glycoprotein expressed on most thymocytes, the majority of peripheral T lymphocytes and a subpopulation of B cells. CD72 has been shown to be the natural ligand for CD5. CD5+ B cells produce polyreactive antibodies (mostly IgM).

The antibody was conjugated to BD HorizonTM BV711 which is part of the BD HorizonTM Brilliant VioletTM family of dyes. This dye is a tandem fluorochrome of BD HorizonTM BV421 with an Ex Max of 405-nm and an acceptor dye with an Em Max at 711-nm. BD HorizonTM BV711 can be excited by the violet laser and detected in a filter used to detect CyTM5.5 / 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-CyTM5.5 detectors. However, the spillover can be corrected through compensation as with any other dye combination.



Flow cytometric analysis of CD5 expression on human peripheral lymphocytes. Whole blood was stained with BD Horizon™ BV711 Mouse Anti-Human CD5 antibody (Cat. No. 563170; solid line histogram) or with a BD Horizon™ BV711 Mouse IgG1, κ Isotype Control (Cat. No. 563044; dashed line histogram). The erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from 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

Suggested Companion Products

Catalog Number	Name Name	Size	Clone
563044	BV711 Mouse IgG1, k Isotype Control	50 μg	X40
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)

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Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10⁶ cells in a 100-μl 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/pharmingen/protocols for technical protocols.
- 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.
- 7. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
- 8. Cy is a trademark of Amersham Biosciences Limited.
- Brilliant Violet™ 711 is a trademark of Sirigen.

References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997. (Biology)
Bernard A, Boumsell L, Dausset J, Milstein C, Schlossman SF, ed. *Leukocyte Typing*. New York: Springer-Verlag; 1984:1-814. (Clone-specific)
Lankester AC, van Schijndel GM, Cordell JL, van Noesel CJ, van Lier RA. CD5 is associated with the human B cell antigen receptor complex. *Eur J Immunol*. 1994; 24(4):812-816. (Biology)

Lydyard PM, Lamour A, MacKenzie LE, Jamin C, Mageed RA, Youinou P. CD5+ B cells and the immune system. *Immunol Lett.* 1993; 38(2):159-166. (Biology) McMichael AJ, Beverly PCL, Gilks W, et al, ed. *Leukocyte Typing III: White Cell Differentiation Antigens*. New York: Oxford University Press; 1987. (Clone-specific)

Zola H, Swart B, Nicholson I, Voss E. CD5 In: Leukocyte and Stromal Cell Molecules. The CD Markers. Hoboken, New Jersey: John Wiley & Sons, Inc.; 2007:49-50. (Clone-specific)

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