Technical Data Sheet

BV421 Mouse Anti-Human CD95

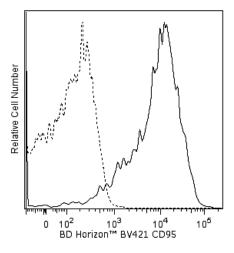
Product Information

Material Number:	562616		
Alternate Name:	APO-1; FAS; TNFRSF6; APT1; ALPS1A; FAS1; FASTM; FASLG receptor		
Size:	100 tests		
Vol. per Test:	5 µl		
Clone:	DX2		
Immunogen:	Human CD95-transfected L ceils		
Isotype:	Mouse (C3H) IgG1, ĸ		
Reactivity:	QC Testing: Human		
Workshop:	VI C-64		
Storage Buffer:	Aqueous buffered solution containing BSA and $\leq 0.09\%$ sodium azide.		

Description

The DX2 monoclonal antibody specifically binds to the human Fas antigen (also called APO-1). This 45 kDa transmembrane cell surface molecule was designated as CD95 at the Fifth HLDA Workshop. Fas is a member of the TNF-receptor superfamily and is also known as Tumor necrosis factor receptor superfamily member 6 (TNFRSF6). It is expressed on a variety of normal and neoplastic cells including activated T and B lymphocytes and some undifferentiated thymocytes. The Fas/CD95 antigen is a polypeptide that plays a role in the programmed sequence of events leading to cell death, termed apoptosis. The DX2 clone specifically reacts with murine L cells, murine L1210 leukemia cells and murine P815 mastocytoma cells transfected with human Fas cDNA but not with untransfected parental cell lines. Crosslinking CD95 with DX2 antibody delivers an apoptotic signal indicating that DX2 recognizes a functional epitope of the CD95 antigen.

The antibody was conjugated to BD HorizonTM BV421 which is part of the BD HorizonTM Brilliant VioletTM family of dyes. With an Ex Max of 407-nm and Em Max at 421-nm, BD HorizonTM BV421 can be excited by the violet laser and detected in the standard Pacific BlueTM filter set (eg, 450/50-nm filter). BD Horizon™ BV421 conjugates are very bright, often exhibiting a 10 fold improvement in brightness compared to Pacific Blue[™] conjugates.



Flow cytometric analysis of CD95 expression on human peripheral blood lymphocytes. Whole blood was stained with either BD Horizon™ BV421 Mouse Anti-Human CD95 antibody (Cat. No. 562616; solid line histogram) or with a BD Horizon™ BV421 Mouse IgG1, κ Isotype Control (Cat. No. 562438; dashed line histogram). 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™ 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 BV421 under optimum conditions, and unconjugated antibody and free BD HorizonTM BV421 were removed.

Application Notes

Application

Routinely Tested Flow cytometry **BD Biosciences** bdbiosciences.com United States Canada Europe Japan Asia Pacific Latin America/Caribbean 0120.8555.90 877.232.8995 800.979.9408 32.53.720.550 65.6861.0633 55.11.5185.9995 For country contact information, visit bdbiosciences.com/contact Conditions: The information disclosed herein is not to be constructed as a recommendation to use the above product in violation

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Suggested Companion Products

Catalog Number	Name	Size	Clone
562438	BV421 Mouse IgG1, k Isotype Control	50 μg	X40
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	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).
- 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- An isotype control should be used at the same concentration as the antibody of interest. 3.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols. 4.
- 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.
- 7. Pacific Blue[™] is a trademark of Molecular Probes, Inc., Eugene, OR.
- Brilliant Violet[™] 421 is a trademark of Sirigen. 8.

References

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Lanier LL, Chang C, Phillips JH. Human NKR-P1A. A disulfide-linked homodimer of the C-type lectin superfamily expressed by a subset of NK and T lymphocytes. J Immunol. 1994; 153(6):2417-2428. (Clone-specific: Flow cytometry)

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