

Technical Data Sheet

V450 Mouse Anti-Human IL-2

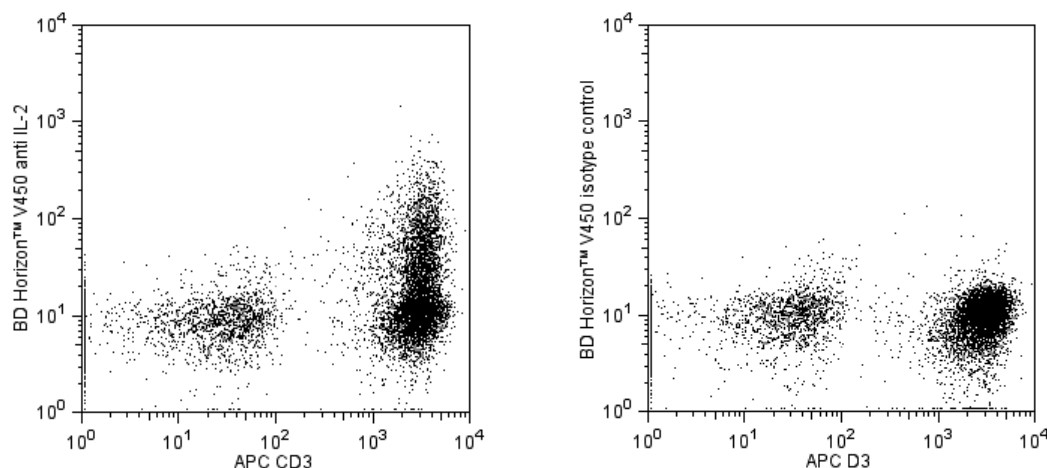
Product Information

Material Number:	560867
Alternate Name:	IL2; Interleukin-2; T-cell growth factor; TCGF
Size:	50 tests
Vol. per Test:	5 µl
Clone:	5344.111
Immunogen:	Human IL-2 protein
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The 5344.111 antibody specifically binds to the multifunctional cytokine, human interleukin-2 (IL-2). IL-2 is produced by activated T cells and has multiple functions that can affect the growth, proliferation and differentiation of many different target cell types including T cells, B cells, NK cells, monocytes and macrophages. The immunogen used to generate the 5344.111 hybridoma was affinity-purified, recombinant human IL-2 protein.

The antibody is conjugated to BD Horizon™ V450, which has been developed for use in multicolor flow cytometry experiments and is available exclusively from BD Biosciences. It is excited by the Violet laser Ex max of 406 nm and has an Em Max at 450 nm. Conjugates with BD Horizon™ V450 can be used in place of Pacific Blue™ conjugates.



Expression of IL-2 by stimulated CD3+ and CD3- human lymphocytes. Human peripheral blood mononuclear cells (PBMC) were stimulated for 18 h with PMA (Phorbol 12-Myristate 13-Acetate; Sigma, Cat. #P-8139) and Calcium Ionophore A23187 (Sigma, Cat. #C-9275), in the presence of GolgiStop™ Protein Transport Inhibitor (2 µM final concentration; Cat. No. 554724). The cells were fixed, permeabilized, and then stained with APC Mouse Anti-Human CD3 (Cat No. 555335) antibody and BD Horizon™ V450 Mouse Anti-Human IL-2 antibody (Cat No. 560867, Left Panel) or BD Horizon™ V450 Mouse IgG1, κ Isotype Control (Cat No. 560373, Right Panel) by using BD Biosciences Pharmingen's Intracellular Cytokine Staining Protocol. The two-color flow cytometric dot plots showing the correlated expression of CD3 and IL-2 or background control staining were derived from gated events with the forward and side light-scatter characteristics of 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™ V450 under optimum conditions, and unreacted BD Horizon™ V450 was removed.

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555335	APC Mouse Anti-Human CD3	100 tests	UCHT1
560373	V450 Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
554724	Protein Transport Inhibitor (Containing Monensin)	0.7 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. BD Horizon™ V450 has a maximum absorption of 406 nm and maximum emission of 450 nm. Before staining with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
3. 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.
4. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. This product is manufactured and sold under license from Pestka Biomedical Laboratories, Inc. (d/b/a PBL InterferonSource) and may be used solely as indicated. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics is strictly prohibited. This product is covered by U.S. Patent No. 5,597,901 and Bulgarian Patent No. BG1895.
7. All other brands are trademarks of their respective owners.
8. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Malek TR. The biology of interleukin-2. *Annu Rev Immunol.* 2008; 26:453-479. (Biology)

Waldmann TA. The biology of interleukin-2 and interleukin-15: implications for cancer therapy and vaccine design. *Nat Rev Immunol.* 2006; 6(8):595-601. (Biology)

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