Technical Data Sheet

V450 Rat Anti-Human IL-6

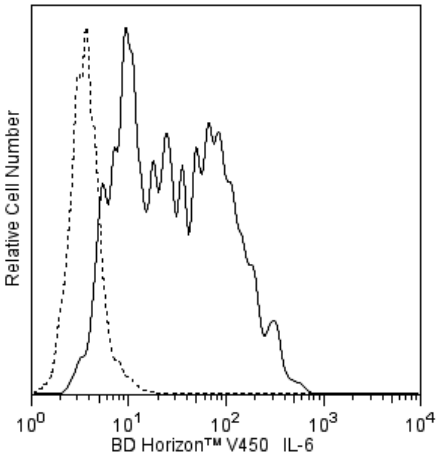
Product Information

Material Number:	**561446**
Alternate Name:	IL6; Interleukin-6; BSF-2; CDF; HGF; HSF; IFNB2
Size:	50 tests
Vol. per Test:	5 µl
Clone:	MQ2-13A5
Immunogen:	Human IL-6 Recombinant Protein
Isotype:	Rat IgG1
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The MQ2-13A5 monoclonal antibody specifically binds to human interleukin-6 (IL-6). The immunogen used to generate this hybridoma was COS-7 -expressed recombinant human IL-6.

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.



Flow cytometric analysis of IL-6 expression by stimulated human monocytes. *Human peripheral blood mononuclear cells (PBMC) were stimulated for 6 hours with lipopolysaccharide (LPS; 100 ng/ml final concentration) in the presence of BD GolgiStop™ Protein Transport Inhibitor (containing monensin) (2 µM final concentration; Cat. No. 554724). The PBMC were harvested, stained with PE Mouse Anti-Human CD14 monoclonal antibody (Cat. No. 555398), fixed and permeabilized using BD Cytofix™ Fixation Buffer (Cat. No. 554655) and BD Perm/Wash™ Buffer (Cat. No. 554723), and stained with BD Horizon™ V450 Rat Anti-Human IL-6 antibody (Cat. No. 561446, solid line histogram) or a BD Horizon™ V450 Rat IgG1, κ Isotype Control (Cat No. 560535, dashed line histogram). The fluorescence histograms were derived from CD14-positive events with the forward and side light-scatter characteristics of intact monocytes. 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

Suggested Companion Products

Catalog Number	Name	Size	Clone
554724	Protein Transport Inhibitor (Containing Monensin)	0.7 ml	(none)
554655	Fixation Buffer	100 ml	(none)
554723	Perm/Wash Buffer	100 ml	(none)
554656	Stain Buffer (FBS)	500 ml	(none)
560535	V450 Rat IgG1, κ Isotype Control	0.1 mg	R3-34
555398	PE Mouse Anti-Human CD14	100 tests	M5E2

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.268.5430	32.53.720.550	0120.8555.90	65.6861.0633	0800.771.7157

For country-specific contact information, visit **bdbiosciences.com/how_to_order/**

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-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
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 Fluorochrome Web Page at www.bdbiosciences.com/colors.
7. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6.20-6.21. (Biology: ELISA, Neutralization)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev.* 1992; 127:5-24. (Biology: ELISA, Neutralization)

Gaines Das RE, Poole S. The international standard for interleukin-6. Evaluation in an international collaborative study. *J Immunol Methods.* 1993; 160(2):147-153. (Biology: ELISA, Neutralization)

Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods.* 1995; 188(1):117-128. (Methodology: IC/FCM Block)