

Technical Data Sheet

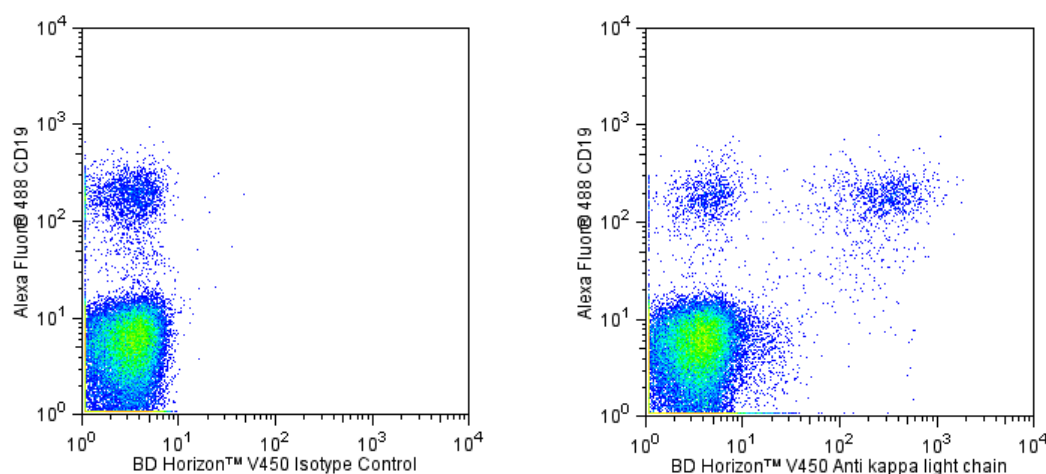
V450 Mouse anti-Human Ig, κ Light Chain**Product Information**

Material Number:	561327
Alternate Name:	Ig, kappa Light Chain; IGKC; HCAK1; Km; Ig kappa chain C region
Size:	50 tests
Vol. per Test:	5 µl
Clone:	G20-193
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The G20-193 monoclonal antibody specifically binds to human immunoglobulin light chain, kappa (κ). It does not react with human immunoglobulin λ light chains or human immunoglobulin heavy chains.

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 Ig κ Light Chain expression on human peripheral blood lymphocytes. Human peripheral blood mononuclear cells (PBMC) were incubated in complete tissue culture medium overnight in order to minimize subsequent nonspecific immunofluorescent staining. The cells were harvested and stained with Alexa Fluor® 488 Mouse anti-Human CD19 antibody (Cat. No. 557697) and either BD Horizon™ V450 Mouse anti-Human Ig κ Light Chain antibody (Cat. No. 561327; Right Panel) or BD Horizon™ V450 Mouse IgG1, κ Isotype Control (Cat. No. 560373; Left Panel). The two-color flow cytometric dot plots showing the correlated expression of Ig κ Light Chain (or Ig isotype control staining) versus CD19 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

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.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

BD Biosciences

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Application Notes

Application

Flow cytometry

Routinely Tested

Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
560373	V450 Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)
557697	Alexa Fluor® 488 Mouse Anti-Human CD19	100 tests	HIB19

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. 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. 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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
6. 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.
7. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.