Technical Data Sheet

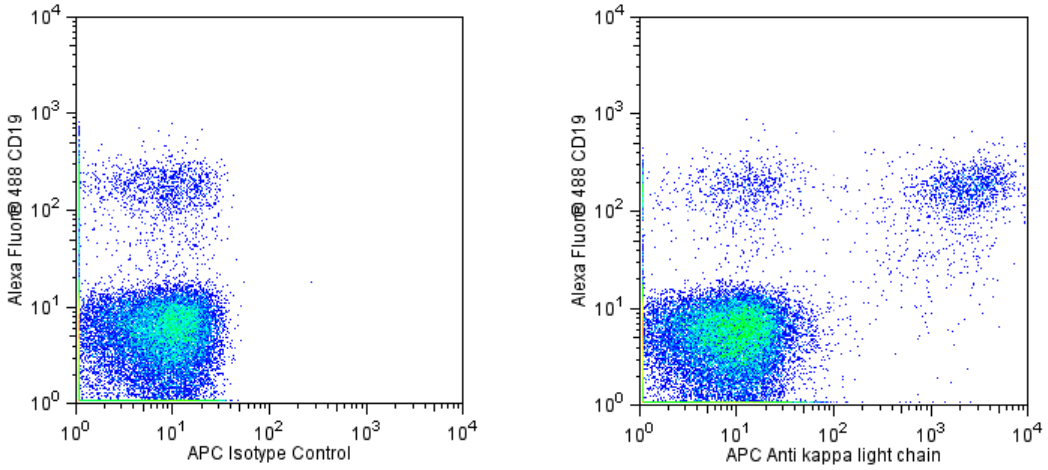
APC Mouse anti-Human Ig, κ Light Chain

Product Information

Material Number:	**561323**
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 BSA 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.



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 (Cat. No. 557697) and either APC Mouse anti-Human Ig κ Light Chain antibody (Cat. No. 561323; Right Panel) or APC Mouse IgG1, κ Isotype Control (Cat. No. 554681; Left Panel) and. 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 to APC under optimum conditions, and unconjugated antibody and free APC were removed.

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

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
554681	APC 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

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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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.