

## Technical Data Sheet

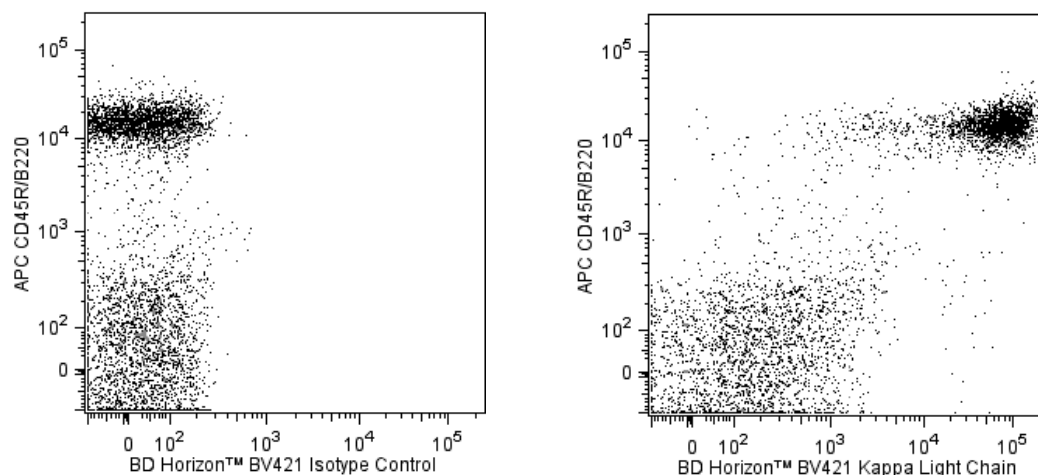
**BV421 Rat Anti-Mouse Ig, κ Light Chain****Product Information**

|                         |                                                                   |
|-------------------------|-------------------------------------------------------------------|
| <b>Material Number:</b> | <b>562888</b>                                                     |
| <b>Alternate Name:</b>  | Ig kappa chain C region; IGKC; Igk-C; Ig, κ                       |
| <b>Size:</b>            | 50 µg                                                             |
| <b>Concentration:</b>   | 0.2 mg/ml                                                         |
| <b>Clone:</b>           | 187.1                                                             |
| <b>Immunogen:</b>       | Mouse IgG2b κ secreted by MPC-11 plasmacytoma                     |
| <b>Isotype:</b>         | Rat (SD) IgG1, κ                                                  |
| <b>Reactivity:</b>      | QC Testing: Mouse                                                 |
| <b>Storage Buffer:</b>  | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

**Description**

The 187.1 monoclonal antibody specifically binds to kappa light chains of mouse immunoglobulins. The 187.1 antibody does not react with mouse λ1 or λ2 immunoglobulin lights chains or mouse immunoglobulin heavy chains.

The antibody was conjugated to BD Horizon™ BV421 which is part of the BD Horizon™ Brilliant Violet™ family of dyes. With an Ex Max of 407-nm and Em Max at 421-nm, BD Horizon™ BV421 can be excited by the violet laser and detected in the standard Pacific Blue™ 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.

**Multicolor flow cytometric analysis of mouse Immunoglobulin κ Light Chain expression on mouse splenocytes.**

Splenic leucocytes from a BALB/c mouse were stained with APC Rat Anti-Mouse CD45R/B220 (Cat. No. 553092/561880) and with either a BD Horizon™ BV421 Rat IgG1, κ Isotype Control (Cat. No. 562868, Left Panel) or with the BD Horizon™ BV421 Rat Anti-Mouse Ig, κ Light Chain antibody (Cat. No. 562888, Right Panel). Two-color flow cytometric dot plots showing the correlated expression of Ig, κ light chain (or Ig Isotype control staining) versus CD45R/B220 were derived from gated events with the light scattering characteristics of viable leucocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometry 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™ BV421 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV421 were removed.

**Application Notes****Application**

|                |                  |
|----------------|------------------|
| Flow cytometry | Routinely Tested |
|----------------|------------------|

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| 877.232.8995  | 800.979.9408 | 32.53.720.550 | 0120.8555.90 | 65.6861.0633 | 55.11.5185.9995         |

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## Suggested Companion Products

| Catalog Number | Name                              | Size   | Clone   |
|----------------|-----------------------------------|--------|---------|
| 554656         | Stain Buffer (FBS)                | 500 ml | (none)  |
| 553092         | APC Rat Anti-Mouse CD45R/B220     | 0.1 mg | RA3-6B2 |
| 561880         | APC Rat Anti-Mouse CD45R/B220     | 25 µg  | RA3-6B2 |
| 562868         | BV421 Rat IgG1, κ Isotype Control | 50 µg  | R3-34   |

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Please refer to [www.bdbiosciences.com/pharming/protocols](http://www.bdbiosciences.com/pharming/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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
7. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
8. Brilliant Violet™ 421 is a trademark of Sirigen.

## References

Yelton DE, Desaymard C, Scharff MD. Use of monoclonal anti-mouse immunoglobulin to detect mouse antibodies. *Hybridoma*. 1981; 1(1):5-11. (Immunogen)

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