

## Technical Data Sheet

## BV605 Mouse IgG2b, κ Isotype Control

## Product Information

|                         |                                                                   |
|-------------------------|-------------------------------------------------------------------|
| <b>Material Number:</b> | 563099                                                            |
| <b>Size:</b>            | 50 µg                                                             |
| <b>Concentration:</b>   | 0.2 mg/ml                                                         |
| <b>Clone:</b>           | MPC-11                                                            |
| <b>Isotype:</b>         | Mouse (BALB/c) IgG2b, κ                                           |
| <b>Storage Buffer:</b>  | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

## Description

The MPC-11 antibody has unknown specificity. The MPC-11 cell line was adapted to continuous culture from the transplantable Merwin Plasmacytoma-11, which was induced by intraperitoneal implantation of a Millipore diffusion chamber into a BALB/c mouse.

This antibody is conjugated to BD Horizon BV605 which is part of the BD Horizon Brilliant™ Violet family of dyes. With an Ex Max of 407-nm and Em Max of 602-nm, BD Horizon BV605 can be excited by a violet laser and detected with a standard 610/20-nm filter set. BD Horizon BV605 is a tandem fluorochrome of BD Horizon BV421 and an acceptor dye with an Em max at 605-nm. Due to the excitation of the acceptor dye by the green (532 nm) and yellow-green (561 nm) lasers, there will be significant spillover into the PE and BD Horizon PE-CF594 detectors off the green or yellow-green lasers. BD Horizon BV605 conjugates are very bright, often exhibiting brightness equivalent to PE conjugates and can be used as a third color off of the violet laser.

For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes are used in the same experiment. Fluorescent dye interactions may cause staining artifacts which may affect data interpretation. The BD Horizon Brilliant Stain Buffer was designed to minimize these interactions. More information can be found in the Technical Data Sheet of the BD Horizon Brilliant Stain Buffer (Cat. No. 563794).

## 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™ BV605 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV605 were removed.

## Application Notes

## Application

|                 |                  |
|-----------------|------------------|
| Flow cytometry  | Routinely Tested |
| Isotype control | Routinely Tested |

## Suggested Companion Products

| Catalog Number | Name                   | Size   | Clone  |
|----------------|------------------------|--------|--------|
| 554656         | Stain Buffer (FBS)     | 500 mL | (none) |
| 563794         | Brilliant Stain Buffer | 5 mL   | (none) |

## 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/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
5. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
6. 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.
7. 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).
8. Although every effort is made to minimize the lot-to-lot variation in the efficiency of the fluorochrome energy transfer, differences in the residual emission from BD Horizon™ BV421 may be observed. Therefore, we recommend that individual compensation controls be performed for every BD Horizon™ BV605 conjugate.
9. CF™ is a trademark of Biotium, Inc.

## BD Biosciences

[bdbiosciences.com](http://bdbiosciences.com)

|                      |               |                |              |                     |                                |
|----------------------|---------------|----------------|--------------|---------------------|--------------------------------|
| <b>United States</b> | <b>Canada</b> | <b>Europe</b>  | <b>Japan</b> | <b>Asia Pacific</b> | <b>Latin America/Caribbean</b> |
| 877.232.8995         | 800.268.5430  | 32.2.400.98.95 | 0120.8555.90 | 65.6861.0633        | 55.11.5185.9995                |

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

*Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.*

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD



## References

Laskov R, Scharff MD. Synthesis, assembly, and secretion of gamma globulin by mouse myeloma cells. I. Adaptation of the Merwin plasma cell tumor-11 to culture, cloning, and characterization of gamma globulin subunits. *J Exp Med.* 1970; 131(3):515-541. (Clone-specific)

Sibinovic KH, Potter M, Hoostelaere, Rode B, Wax J, ed. *Catalogue of plasmacytomas and other tumors of the lymphoreticular system, 3rd edition.* Kensington, Maryland: Litton Bionetics, Inc; 1976:1-33. (Clone-specific)

## BD Biosciences

[bdbiosciences.com](http://bdbiosciences.com)

| United States | Canada       | Europe         | Japan        | Asia Pacific | Latin America/Caribbean |
|---------------|--------------|----------------|--------------|--------------|-------------------------|
| 877.232.8995  | 800.268.5430 | 32.2.400.98.95 | 0120.8555.90 | 65.6861.0633 | 55.11.5185.9995         |

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

*Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.*

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD

