

# Technical Data Sheet

## BV510 Mouse Anti-Rat IgM

### Product Information

|                    |                                                           |
|--------------------|-----------------------------------------------------------|
| Material Number:   | 742500                                                    |
| Size:              | 50 µg                                                     |
| Clone:             | G53-238                                                   |
| Alternative Name:  | Igh-6; Igh-1α; mu-immunoglobulin; RGD1359202              |
| Reactivity:        | Tested in Development:Rat                                 |
| Isotype:           | Mouse IgG1, κ                                             |
| Application:       | Flow cytometry(Qualified)                                 |
| Concentration:     | 0.2 mg/ml                                                 |
| Storage Buffer:    | Aqueous buffered solution containing ≤0.09% sodium azide. |
| Regulatory Status: | RUO                                                       |

### Description

The G53-238 antibody reacts specifically with rat IgM monomers and pentamers. It does not react with other Ig isotypes. G53-238 antibody has not been shown to stimulate B-cell proliferation.

The antibody was conjugated to BD Horizon™ BV510 which is part of the BD Horizon Brilliant™ Violet family of dyes. With an Ex Max of 405-nm and Em Max at 510-nm, BD Horizon BV510 can be excited by the violet laser and detected in the BD Horizon V500 (525/50-nm) filter set. BD Horizon BV510 conjugates are useful for the detection of dim markers off the violet laser.

### 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 BV510 under optimal conditions that minimize unconjugated dye and antibody.

### Recommended Assay Procedure

For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes (including BD OptiBuild Brilliant reagents) 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).

### Suggested Companion Products

| Catalog Number | Name                                                   | Size      |
|----------------|--------------------------------------------------------|-----------|
| 553141         | Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™) | 0.1 mg    |
| 554656         | Stain Buffer (FBS)                                     | 500 mL    |
| 554657         | Stain Buffer (BSA)                                     | 500 mL    |
| 563794         | Brilliant Stain Buffer                                 | 100 Tests |
| 555899         | Lysing Buffer                                          | 100 mL    |
| 562946         | BV510 Mouse IgG1, κ Isotype Control                    | 50 µg     |

### Product Notices

1. This antibody was developed for use in flow cytometry.
2. The production process underwent stringent testing and validation to assure that it generates a high-quality conjugate with consistent performance and specific binding activity. However, verification testing has not been performed on all conjugate lots.
3. Researchers should determine the optimal concentration of this reagent for their individual applications.
4. An isotype control should be used at the same concentration as the antibody of interest.

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. Please refer to [www.bdbiosciences.com/us/s/resources](http://www.bdbiosciences.com/us/s/resources) for technical protocols.
8. BD Horizon Brilliant Stain Buffer is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,575,303; 8,354,239.
9. BD Horizon Brilliant Violet 510 is covered by one or more of the following US patents: 8,575,303; 8,354,239.

## References

Wu DY, Goldschneider I. Cyclosporin A-induced autologous graft-versus-host disease: a prototypical model of autoimmunity and active (dominant) tolerance coordinately induced by recent thymic emigrants.. J Immunol. 1999; 162(11):6926-33. (Clone-specific: Cell separation).

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