Technical Data Sheet

BV510 Mouse Anti-Syrian Hamster IgG2

Product Information

Material Number:	744973
Size:	50 µg
Clone:	G192-3
Reactivity:	Tested in Development:Syrian Hamster
Isotype:	Mouse BALB/c 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

Based on ELISA, the G192-3 antibody reacts specifically with Syrian hamster IgG2 monoclonal antibodies. The G192-3 mAb does not react with other hamster IgG groups or hamster IgM.

The BD Horizon Brilliant Violet™ 510 (BV510) Dye is part of the BD Horizon Brilliant Violet™ family of dyes. This polymer-technology based dye with an excitation maximum (Ex Max) at 327-nm / 405-nm and an emission maximum (Em Max) at 512-nm. BV510, driven by BD innovation, is designed to be excited by the violet laser (405-nm) and detected using an optical filter centered near 510-nm (e.g., a 525/50 bandpass filter). The dye can be excited by the UV (355-nm) laser resulting in cross-laser excitation and spillover. Please ensure that your instrument's configurations (lasers and optical filters) are appropriate for this dye.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated to the dye under optimum conditions that minimize unconjugated dye and antibody. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Recommended Assay Procedure

BD® CompBeads can be used as surrogates to assess fluorescence spillover (Compensation). When fluorochrome conjugated antibodies are bound to CompBeads, they have spectral properties very similar to cells. However, for some fluorochromes there can be small differences in spectral emissions compared to cells, resulting in spillover values that differ when compared to biological controls. It is strongly recommended that when using a reagent for the first time, users compare the spillover on cells and CompBead to ensure that BD® CompBeads are appropriate for your specific cellular application.

For optimal and reproducible results, BD Horizon Brilliant™ Stain Buffer should be used anytime BD Horizon Brilliant dyes are used in a multicolor flow cytometry panel. Fluorescent dye interactions may cause staining artifacts which may affect data interpretation. The BD Horizon Brilliant Stain Buffer was designed to minimize these interactions. When BD Horizon Brilliant Stain Buffer is used in in the multicolor panel, it should also be used in the corresponding compensation controls for all dyes to achieve the most accurate compensation. For the most accurate compensation, compensation controls created with either cells or beads should be exposed to BD Horizon Brilliant Stain Buffer for the same length of time as the corresponding multicolor panel. More information can be found in the Technical Data Sheet of the BD Horizon Brilliant Stain Buffer (Cat. No. 563794/566349) or the BD Horizon Brilliant Stain Buffer Plus (Cat. No. 566385).

Suggested Companion Products

Catalog Number	Name	Size
554656	Stain Buffer (FBS)	500 mL
554657	Stain Buffer (BSA)	500 mL
566349	Brilliant Stain Buffer	100 Tests
566385	Brilliant Stain Buffer Plus	1000 Tests
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg
562946	BV510 Mouse IgG1, k Isotype Control	50 µg

555899 Lysing Buffer 100 mL

Product Notices

1. Please refer to www.bdbiosciences.com/us/s/resources for technical protocols.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. An isotype control should be used at the same concentration as the antibody of interest.
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 Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. 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.
7. Researchers should determine the optimal concentration of this reagent for their individual applications.
8. BD Horizon Brilliant Violet 510 is covered by one or more of the following US patents: 8,575,303; 8,354,239.
9. 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.
10. Please refer to http://regdocs.bd.com to access safety data sheets (SDS).

References

Fiuza JA, Dey R, Davenport D, et al. Intradermal Immunization of Leishmania donovani Centrin Knock-Out Parasites in Combination with Salivary Protein LJM19 from Sand Fly Vector Induces a Durable Protective Immune Response in Hamsters. PLoS Negl Trop Dis. 2016; 10(1):e0004322. (Clone-specific: ELISA).

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