Technical Data Sheet

Ig Isotype Control Cocktail - B

Product Information

Material Number:	**558508**
Size:	20 Tests
Vol. per Test:	20 µl
RRID:	AB_1645631
Storage Buffer:	Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.
Component:	**51-590-03089**
Description:	APC mIgM
Clone Name:	G155-228
Isotype:	Mouse (BALB/c) IgM, κ
Component:	**51-550-33035**
Description:	PE Mouse IgG2a, κ Isotype Control
Clone Name:	G155-178
Isotype:	Mouse (BALB/c) IgG2a, κ
Component:	**51-540-20604**
Description:	FITC mIgG1
Clone Name:	MOPC-21
Isotype:	Mouse IgG1, κ

Description

The Isotype Control Cocktail B is a mixture of Mouse IgG1, Mouse IgG2a, and Mouse IgM designed and optimized to work in conjunction with the Rat T Lymphocyte Cocktail (Cat. No. 558493). The Mouse IgM G155-228 is a monoclonal antibody specific for trinitrophenol (TNP), a hapten not expressed on mammalian cells. The Mouse IgG2a G155-178 antibody was developed against TNP as well, but has unknown specificity. The Mouse IgG1 MOPC-21 immunoglobulin is a mouse myeloma protein. All immunoglobulins were selected as isotype controls following screening for low background on a variety of mouse and human tissues.

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 to the dye under optimum conditions and unconjugated antibody and free dye were removed.

Application Notes

Application

Flow cytometry	Tested During Development

Recommended Assay Procedure:

BD® CompBeads can be used as surrogates to assess fluorescence spillover (compensation). When fluorochrome conjugated antibodies are bound to BD® 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 cell and BD® CompBeads to ensure that BD® CompBeads are appropriate for your specific cellular application.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
558493	Rat T Lymphocyte Cocktail	50 Tests	(none)

BD Biosciences

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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. 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. 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. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
7. Please refer to www.bdbiosciences.com/us/s/resources for technical protocols.
8. Please refer to http://regdocs.bd.com to access safety data sheets (SDS).

References

Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods.* 1995; 188(1):117-128. (Methodology)