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### Warnings

Reagents contain sodium azide. Under acidic conditions sodium azide yields hydrazoic acid, which is extremely toxic. Azide compounds should be diluted with running water before discarding. These precautions are recommended to avoid deposits in plumbing where explosive conditions may develop.

## 1. Description

### This product is for research use only.

Components	Monoclonal Mouse IgG2b antibodies,
	conjugated to:

Conjugate	Order no. 1 mL (100 tests)	Order no. 300 μL (30 tests)
FITC	130-092-216	130-099-119
VioBright <sup>™</sup> FITC	130-104-575	130-104-649
PE	130-092-215	130-098-875
APC	130-092-217	130-098-890
VioBlue®	130-098-591	130-098-601
VioGreen™	130-096-935	-
PerCP	130-098-594	130-098-604
PE-Vio <sup>®</sup> 615	130-108-348	130-108-377
PE-Vio <sup>®</sup> 770	130-096-825	130-098-562
APC-Vio <sup>®</sup> 770	130-096-822	130-100-408
PerCP-Vio® 700	130-097-567	_
Biotin	130-092-466	130-099-759
	type: mouse IgG or up to 10 <sup>9</sup> total	-
300 µL: 30 tests	or up to $3 \times 10^8$ to	tal cells.
Antibadias ana a	umplied in huffe	

**Product format** Antibodies are supplied in buffer containing stabilizer and 0.05% sodium azide. Store protected from light at 2-8 °C. Do not Storage

freeze. The expiration date is indicated on the vial label.

### Miltenyi Biotec GmbH

Clone

-520.06

Capacity

Friedrich-Ebert-Straße 68, 51429 Bergisch Gladbach, Germany Phone +49 2204 8306-0, Fax +49 2204 85197

140-001macs@miltenyibiotec.de

www.miltenyibiotec.com

## Mouse IgG2b isotype control antibodies

#### 1.1 Background information

Expression patterns: The Mouse IgG2b isotype control antibody clone IS6-11E5.11 is specific for KLH (keyhole limpet hemocyanin). This protein is not expressed on human cells or cell lines. Therefore, the antibody clone IS6-11E5.11 can be used as a negative control, to distinguish specific from nonspecific binding of mouse IgG2b fluorochrome-conjugated antibodies to human cells, for example, via Fc receptors, or due to interactions of the fluorochrome with the cell surface.

### 1.2 Applications

Mouse IgG2b isotype control antibodies are suitable for assessing the level of background staining for flow cytometric cell analysis of human cells.

### 1.3 Recommended antibody dilution

The recommended antibody dilution for all Mouse IgG2b conjugates is 1:11 for up to 107 cells/100 µL of buffer for labeling of cells and analysis by flow cytometry.

### 1.4 Reagent requirements

Buffer: Prepare a solution containing phosphate-buffered saline (PBS), pH 7.2, 0.5% bovine serum albumin (BSA), and 2 mM EDTA by diluting MACS\* BSA Stock Solution (#130-091-376) 1:20 with autoMACS® Rinsing Solution (#130-091-222). Keep buffer cold (2-8 °C).

▲ Note: EDTA can be replaced by other supplements such as anticoagulant citrate dextrose formula-A (ACD-A) or citrate phosphate dextrose (CPD). Buffers or media containing Ca2+ or Mg2+ are not recommended for use.

- (Optional) Conjugated anti-biotin antibodies, e.g., Anti-Biotin-PE (# 130-090-756) as secondary antibody reagent in combination with Mouse IgG2b-Biotin.
- (Optional) Propidium Iodide Solution (#130-093-233) for flow cytometric exclusion of dead cells without fixation.
- (Optional) Fixation and Dead Cell Discrimination Kit (#130-091-163) for cell fixation and flow cytometric exclusion of dead cells.

## 2. General protocol for immunofluorescent staining

 $\blacktriangle$  Volumes given below are for up to 10<sup>7</sup> nucleated cells. When working with fewer than 107 cells, use the same volumes as indicated. When working with higher cell numbers, scale up all reagent volumes and total volumes accordingly (e.g. for 2×107 nucleated cells, use twice the volume of all indicated reagent volumes and total volumes).

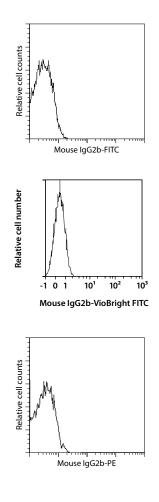
- Determine cell number. 1.
- 2. Centrifuge cell suspension at 300×g for 10 minutes. Aspirate supernatant completely.

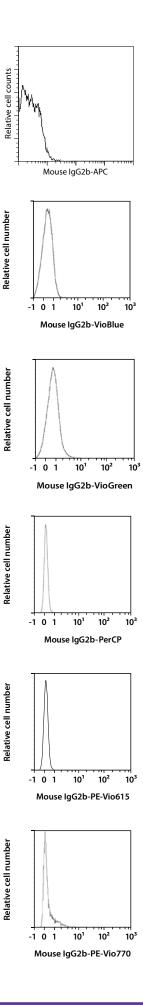
Miltenyi Biotec Inc. 2303 Lindbergh Street, Auburn, CA 95602, USA Phone 800 FOR MACS, +1 530 888 8871, Fax +1 877 591 1060 macs@miltenyibiotec.com

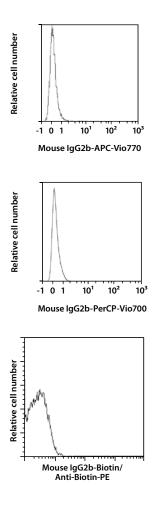
- 3. Resuspend up to  $10^7$  nucleated cells per 100  $\mu$ L of buffer.
- 4. Add 10 µL of the Mouse IgG2b antibody.
- Mix well and incubate for 10 minutes in the dark in the refrigerator (2-8 °C).
  ▲ Note: Higher temperatures and/or longer incubation times may lead to non-specific cell labeling. Working on ice requires increased incubation times.
- 6. Wash cells by adding 1–2 mL of buffer and centrifuge at 300×g for 10 minutes. Aspirate supernatant completely.
- 7. (Optional) If Mouse IgG2b-Biotin was used, resuspend the cell pellet in 100  $\mu$ L of buffer, add 10  $\mu$ L of anti-biotin antibody, and continue as described in steps 5 and 6.
- 8. Resuspend cell pellet in a suitable amount of buffer for analysis by flow cytometry or fluorescence microscopy.

# 3. Examples of immunofluorescent staining with Mouse IgG2b antibodies

Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse IgG2b antibodies and analyzed by flow cytometry using the MACSQuant<sup>®</sup> Analyzer. Cell debris and dead cells were excluded from the analysis based on scatter signals and propidium iodide fluorescence.







All protocols and data sheets are available at www.miltenyibiotec.com.

#### Warranty

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