Anti-IgG antibodies, human

For research use only

One test corresponds to labeling of up to 10^7 cells in a total volume of 100 µL.

Product	Content	Order no.
Anti-IgG-FITC[1]	for 30 tests	130-099-229
Anti-IgG-FITC[1]	for 100 tests	130-093-192
Anti-IgG-PE	for 30 tests	130-099-201
Anti-IgG-PE	for 100 tests	130-093-193
Anti-IgG-APC	for 30 tests	130-099-126
Anti-IgG-APC	for 100 tests	130-093-194
Anti-IgG-VioBlue	for 30 tests	130-099-482
Anti-IgG-VioBlue	for 100 tests	130-099-483
Anti-IgG-PE-Vio770[1]	for 30 tests	130-107-080
Anti-IgG-PE-Vio770[1]	for 100 tests	130-107-054
Anti-IgG-APC-Vio770[1]	for 30 tests	130-107-081
Anti-IgG-APC-Vio770[1]	for 100 tests	130-107-055
Anti-IgG-PerCP-Vio700[1]	for 30 tests	130-107-082
Anti-IgG-PerCP-Vio700[1]	for 100 tests	130-107-056
Anti-IgG-Biotin[1]	for 100 tests	130-093-195
Anti-IgG pure	100 µg in 1 mL	130-093-197

[1]Not recommended for cells that are labeled with MACS MicroBeads using the same antigen.

Technical data and background information

Antigen	IgG
Clone	IS11-3B2.2.3
Isotype	mouse IgG1κ
Isotype control	Mouse IgG1 – isotype control antibodies
Product format	Antibodies are supplied in buffer containing stabilizer and 0.05% sodium azide.
Fixation	The antibody is suited for staining of formaldehyde-fixed cells.
Storage	Store protected from light at 2–8 °C. Do not freeze.

The Anti-IgG antibody detects all subclasses of human immunoglobulins of the IgG isotype. Clone IS11-3B2.2.3 recognizes the Fab region of IgG. IgG produced by B cells is the most abundant immunoglobulin in humans. It is expressed in a membrane-associated or a secreted form. Functions of IgGs include opsonization for phagocytosis, complement activation, feedback inhibition of B cell activation, and antibody-dependent cell-mediated cytotoxicity (ADCC).

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 Ca^{2+} or Mg^{2+} are not recommended for use.
- (Optional) FcR Blocking Reagent, human (# 130-059-901) to avoid Fc receptor–mediated antibody labeling.
- (Optional) Fluorochrome-conjugated anti-biotin antibodies, e.g., Anti-Biotin-PE (# 130-090-756) as secondary antibody reagent in combination with biotinylated antibodies.
- (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.

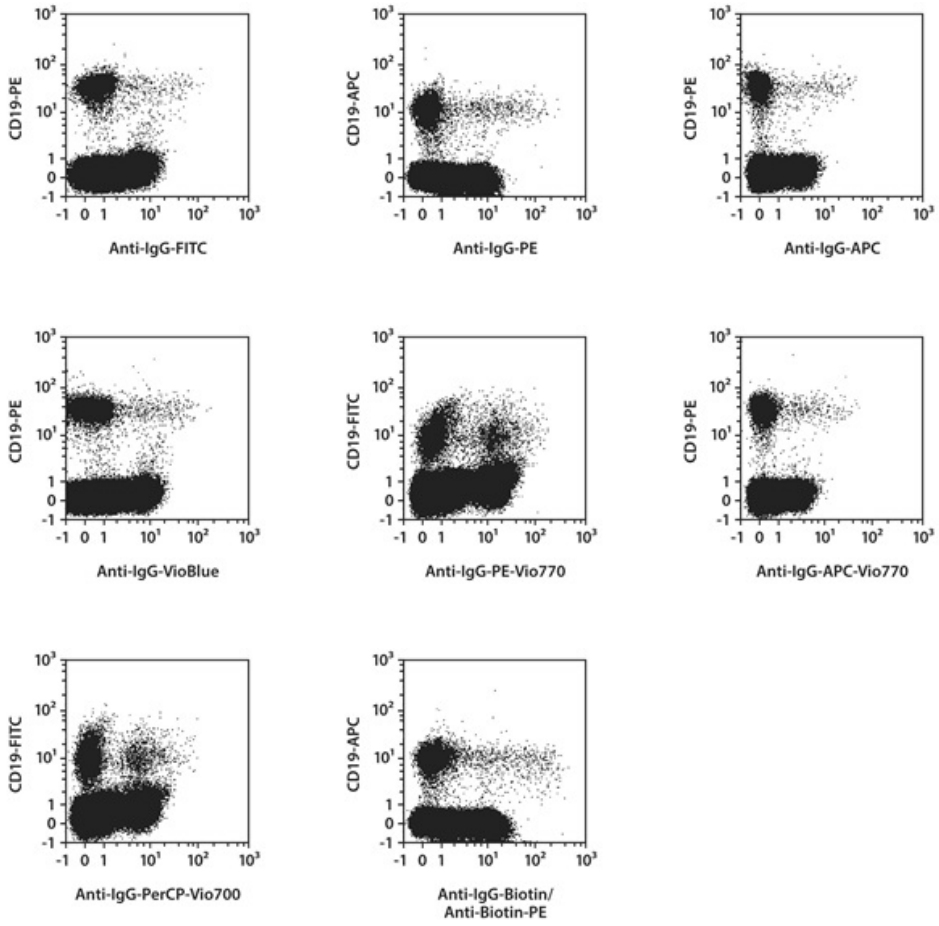
Protocol for cell surface staining

- The recommended antibody dilution for labeling of cells and subsequent analysis by flow cytometry is 1:11 for up to 10^7 cells/100 µL of buffer.
- Volumes given below are for up to 10^7 nucleated cells. When working with fewer than 10^7 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 2×10^7 nucleated cells, use twice the volume of all indicated reagent volumes and total volumes).

1. Determine cell number.
2. Centrifuge cell suspension at 300×g for 10 minutes. Aspirate supernatant completely.
3. Resuspend up to 10^7 nucleated cells per 100 µL of buffer.
4. Add 10 µL of the antibody.
5. 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 biotinylated antibody was used, resuspend the cell pellet in 100 µL of buffer, add 10 µL of fluorochrome-conjugated 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.

Examples of immunofluorescent staining

Human peripheral blood mononuclear cells (PBMCs) were stained with Anti-IgG antibodies as well as with CD19 antibodies and analyzed by flow cytometry. Cell debris and dead cells were excluded from the analysis based on scatter signals and propidium iodide fluorescence or 4',6-diamidino-2-phenylindole (DAPI) fluorescence, as in the case of tandems.



Warranty

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