Anti-Ig κ Light Chain antibodies, mouse

For research use only

30 µg equal 100 tests, 150 µg equal 500 tests. One test corresponds to labeling of 10 cells.

Product	Content	Order no.
Anti-Ig κ Light Chain-Biotin	30 µg in 200 µL	130-114-398
Anti-Ig κ Light Chain-FITC	30 µg in 200 µL	130-114-399
Anti-Ig κ Light Chain-FITC	150 µg in 1 mL	130-114-292
Anti-Ig κ Light Chain-PE	30 µg in 200 µL	130-114-400
Anti-Ig κ Light Chain-PE	150 µg in 1 mL	130-114-293
Anti-Ig κ Light Chain-APC	30 µg in 200 µL	130-114-401
Anti-Ig κ Light Chain-APC	150 µg in 1 mL	130-114-294
Anti-Ig κ Light Chain-VioBlue	30 µg in 200 µL	130-114-406
Anti-Ig κ Light Chain-VioBlue	150 µg in 1 mL	130-114-299
Anti-Ig κ Light Chain-VioGreen	30 µg in 200 µL	130-114-407
Anti-Ig κ Light Chain-VioGreen	150 µg in 1 mL	130-114-300
Anti-Ig κ Light Chain-PE-Vio615	30 µg in 200 µL	130-114-408
Anti-Ig κ Light Chain-PE-Vio615	150 µg in 1 mL	130-114-301
Anti-Ig κ Light Chain-PE-Vio770	30 µg in 200 µL	130-114-402
Anti-Ig κ Light Chain-PE-Vio770	150 µg in 1 mL	130-114-295
Anti-Ig κ Light Chain-APC-Vio770	30 µg in 200 µL	130-114-403
Anti-Ig κ Light Chain-APC-Vio770	150 µg in 1 mL	130-114-296
Anti-Ig κ Light Chain-PerCP-Vio700	30 µg in 200 µL	130-114-404
Anti-Ig κ Light Chain-PerCP-Vio700	150 µg in 1 mL	130-114-297
Anti-Ig κ Light Chain-Biotin	150 µg in 1 mL	130-114-291

Technical data and background information

Antigen	Ig κ Light Chain
Clone	REA879
Isotype	recombinant human IgG1
Isotype control	REA Control antibodies
Alternative names of antigen	IgkLC
Entrez Gene ID	16071
Distribution of antigen	B cells
Product format	Reagents are supplied in buffer containing stabilizer and 0.05% sodium azide.
Fixation	Cells should be stained prior to fixation, if formaldehyde is used as a fixative.

Storage	Store protected from light at 2–8 °C. Do not freeze.

Clone REA879 recognizes κ light chains of mouse immunoglobulins. It does not react with mouse λ 1 or λ 2 immunoglobulin light chains or mouse immunoglobulin heavy chains. Additional information: Clone REA879 displays negligible binding to Fc receptors.

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) 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.

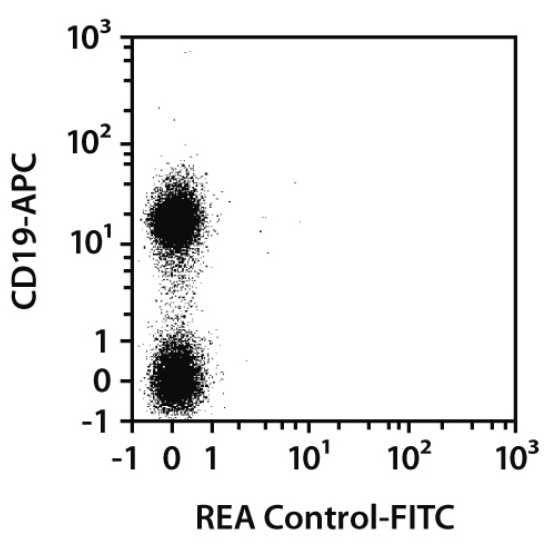
Protocol for cell surface staining

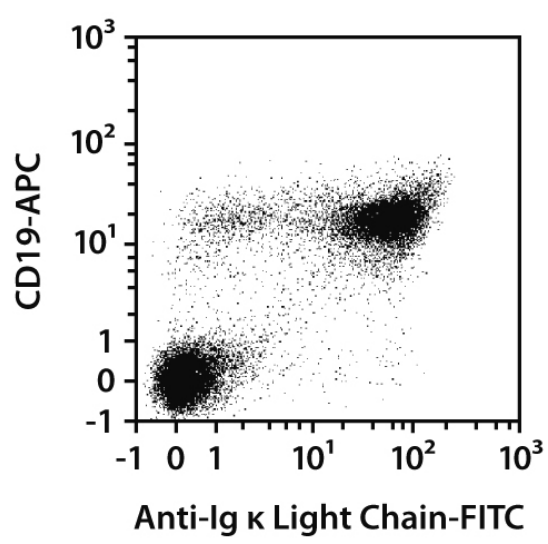
- The recommended antibody dilution for labeling of cells and subsequent analysis by flow cytometry is 1:50 for up to 10^6 cells/100 µL.
- Volumes given below are for up to 10^6 nucleated cells. When working with fewer than 10^6 cells, use the same volumes as indicated. When working with higher cell numbers, scale up all reagent volumes and total volumes accordingly.

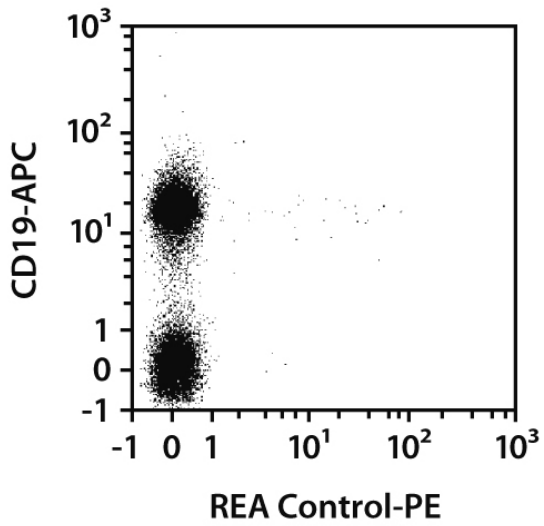
1. Determine cell number.
2. Centrifuge cell suspension at 300×g for 10 minutes. Aspirate supernatant completely.
3. Resuspend up to 10^6 nucleated cells per 98 µL of buffer.
4. Add 2 µL of the antibody.
5. Mix well and incubate for 10 minutes in the dark in the refrigerator (2−8 °C).
   Note: Higher 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 buffer and stain with fluorochrome-conjugated anti-biotin antibody according to the manufacturer's recommendations.
8. Resuspend cell pellet in a suitable amount of buffer for analysis by flow cytometry or fluorescence microscopy.

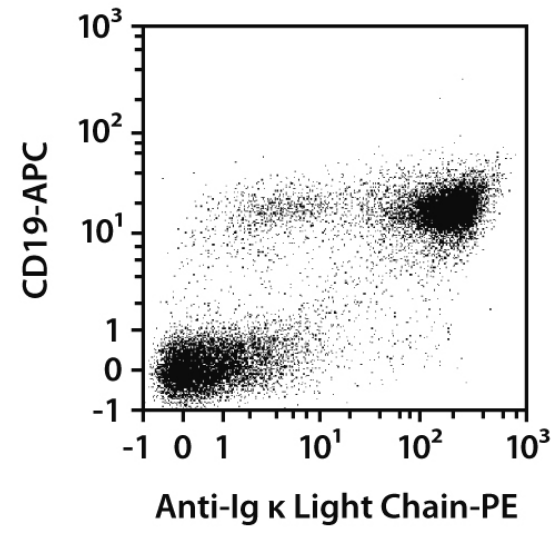
Examples of immunofluorescent staining

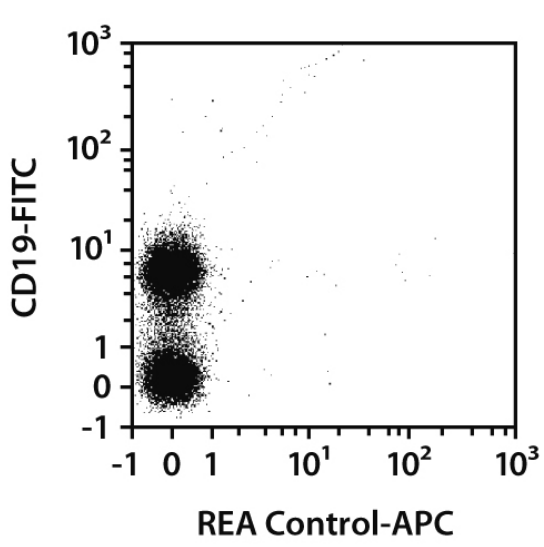
Splenocytes from C57BL/6 mice were stained with Anti-Ig κ Light Chain antibodies or with the corresponding REA Control antibodies (left image) as well as with CD19 antibodies. Flow cytometry was performed using the MACSQuant®Analyzer. Cell debris and dead cells were excluded from the analysis based on scatter signals and propidium iodide fluorescence or 4',6-diamidino-2-phenylindole (DAPI) fluorescence, as in the case of tandem conjugates.

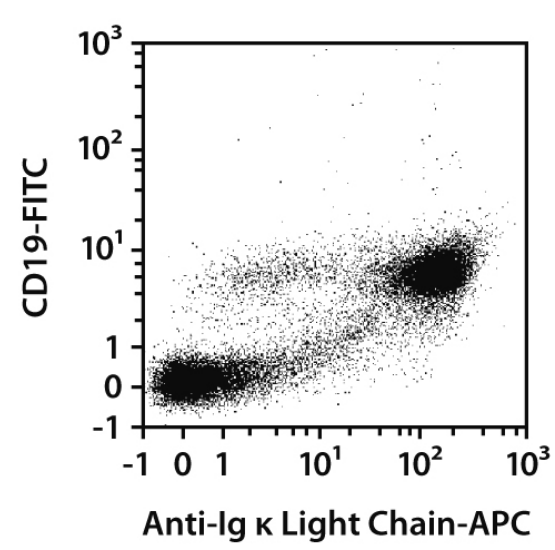


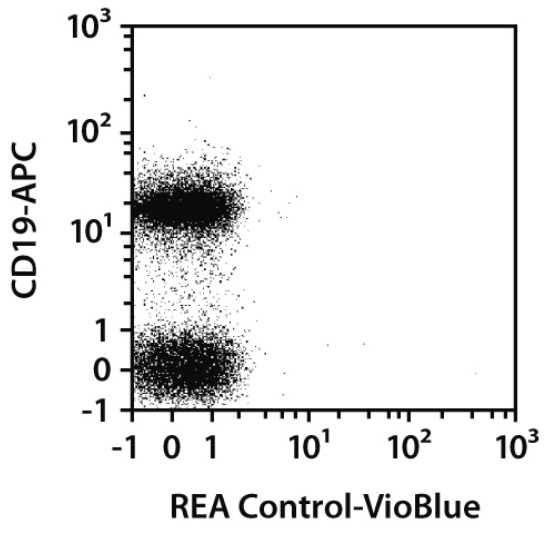


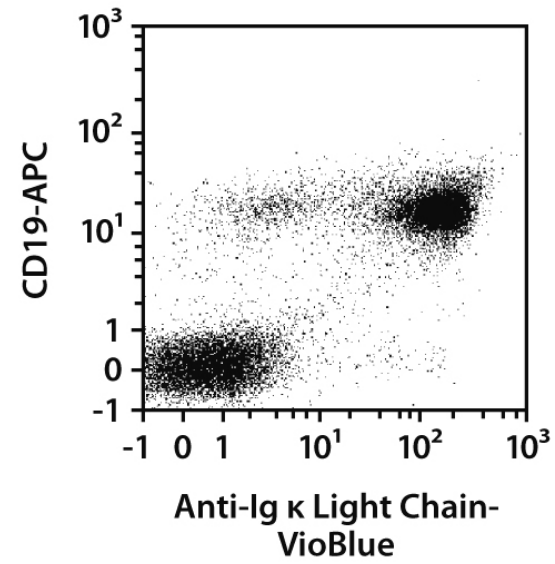

CD19-APC
REA Control-PE

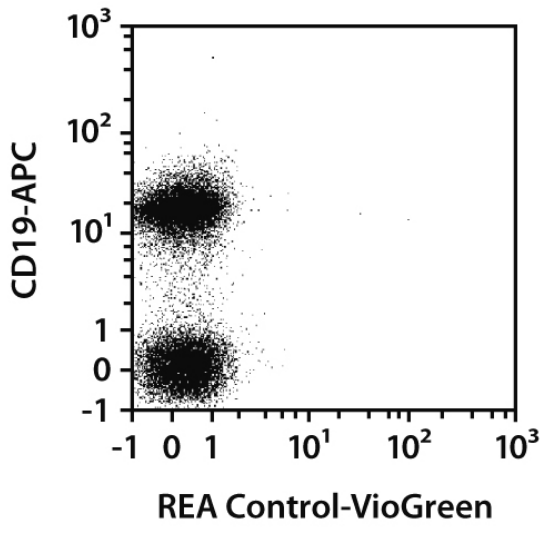

CD19-APC
Anti-Ig κ Light Chain-PE

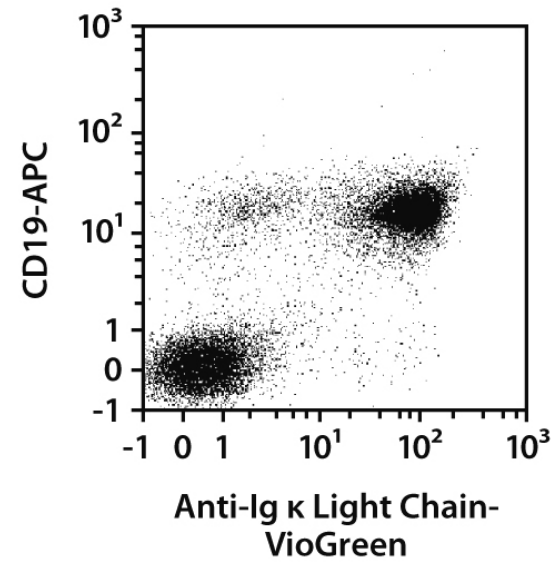

CD19-FITC
REA Control-APC

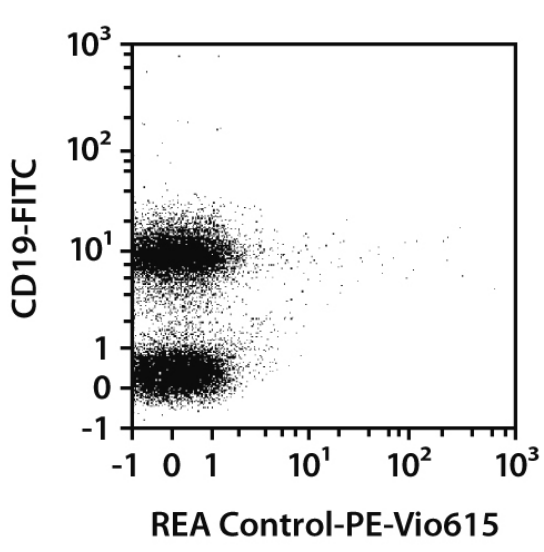

CD19-FITC
Anti-Ig κ Light Chain-APC

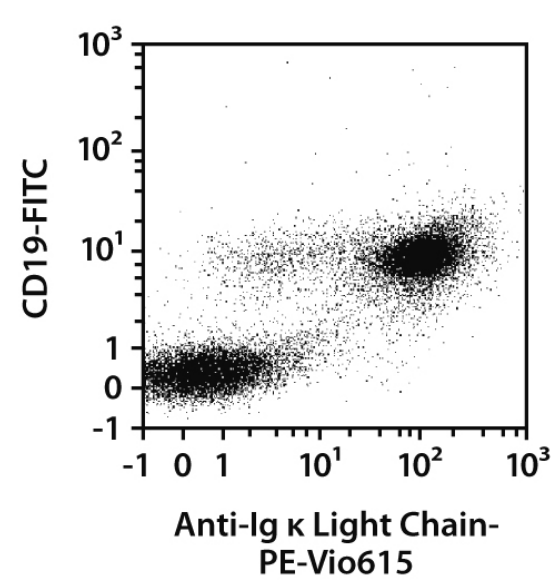

CD19-APC
REA Control-VioBlue

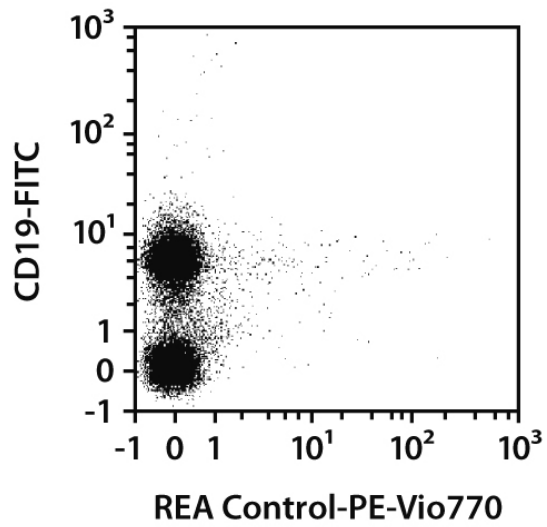

CD19-APC
Anti-Ig κ Light Chain-
VioBlue

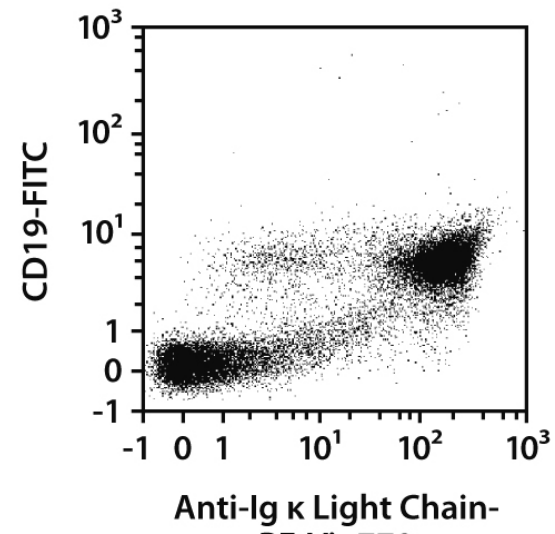

CD19-APC
REA Control-VioGreen

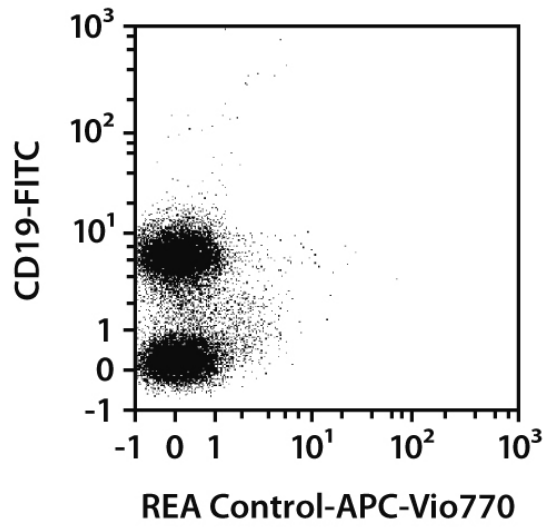

CD19-APC
Anti-Ig κ Light Chain-
VioGreen

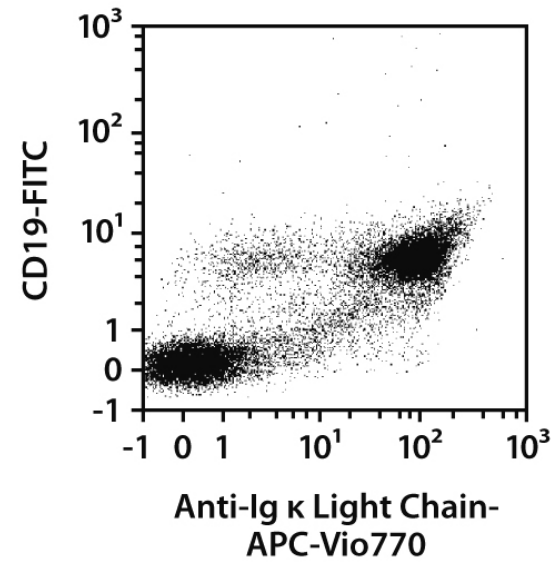

CD19-FITC
REA Control-PE-Vio615

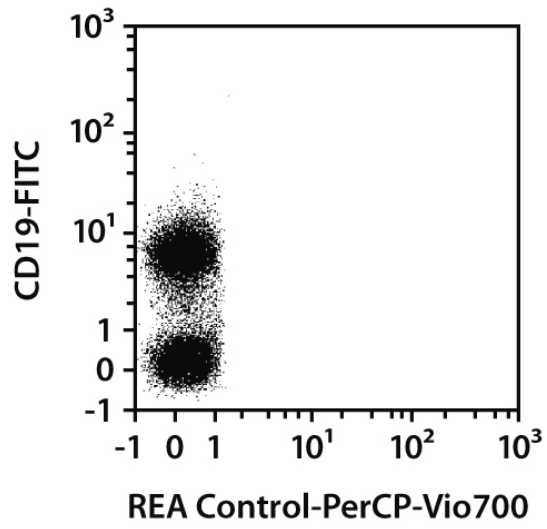

CD19-FITC
Anti-Ig κ Light Chain-
PE-Vio615

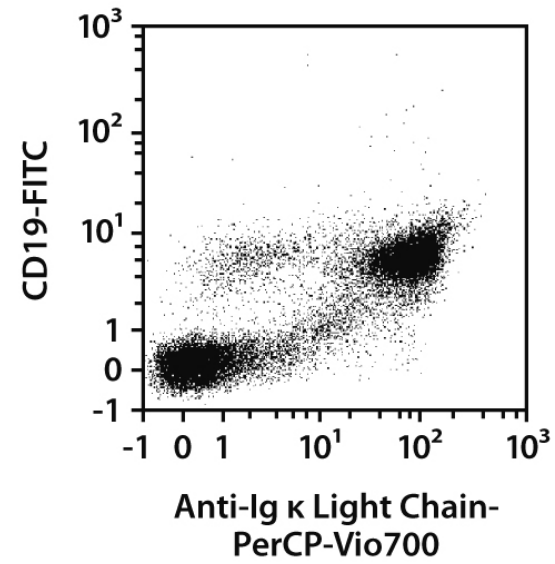


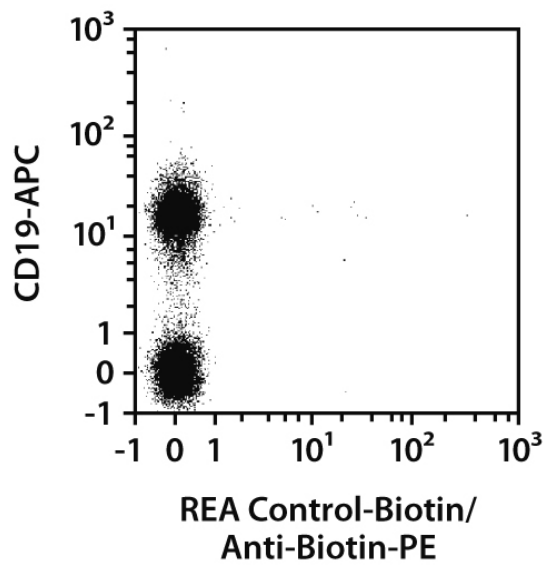


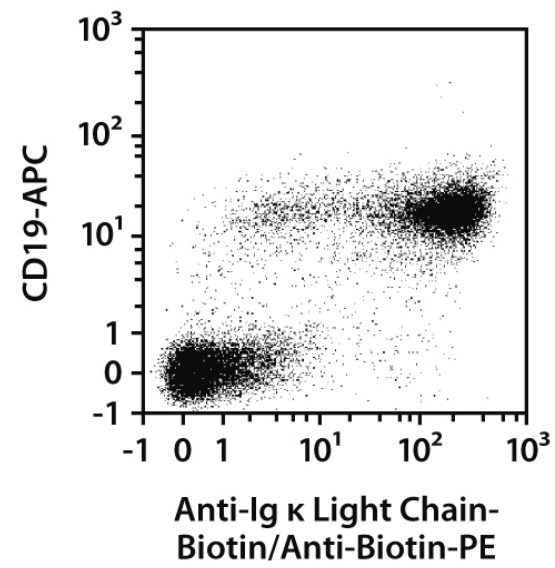












Warranty

The products sold hereunder are warranted only to be free from defects in workmanship and material at the time of delivery to the customer. Miltenyi Biotec GmbH makes no warranty or representation, either expressed or implied, with respect to the fitness of a product for a particular purpose. There are no warranties, expressed or implied, which extend beyond the technical specifications of the products. Miltenyi Biotec GmbH’s liability is limited to either replacement of the products or refund of the purchase price. Miltenyi Biotec GmbH is not liable for any property damage, personal injury or economic loss caused by the product.

Miltenyi Biotec GmbH | Friedrich-Ebert-Straße 68 | 51429 Bergisch Gladbach | Germany | Phone +49 2204 8306-0 | Fax +49 2204 85197 |

macs@miltenyibiotec.de | www.miltenyibiotec.com Miltenyi Biotec provides products and services worldwide. Visit **www.miltenyibiotec.com/local** to find your nearest Miltenyi Biotec contact.