Anti-Frizzled-1 antibodies, mouse

For research use only

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

Product	Content	Order no.
Anti-Frizzled-1-Biotin	30 µg in 200 µL	130-112-396
Anti-Frizzled-1-PE	30 µg in 200 µL	130-112-397
Anti-Frizzled-1-PE	150 µg in 1 mL	130-112-240
Anti-Frizzled-1-APC	30 µg in 200 µL	130-112-398
Anti-Frizzled-1-APC	150 µg in 1 mL	130-112-241
Anti-Frizzled-1-PE-Vio770	30 µg in 200 µL	130-112-399
Anti-Frizzled-1-PE-Vio770	150 µg in 1 mL	130-112-242
Anti-Frizzled-1-Biotin	150 µg in 1 mL	130-112-239

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.

Technical data and background information

Antigen	Frizzled-1
Clone	REA603
Isotype	recombinant human IgG1
Isotype control	REA Control antibodies
Alternative names of antigen	Fz-1, Fzd1
Entrez Gene ID	8321, 14362
Molecular mass of antigen [kDa]	64
Cross-reactivity	human
Distribution of antigen	heart, placenta, kidney, ovary, prostate cancer cells, pancreas
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 REA603 recognizes the mouse frizzled-1 antigen. Frizzled-1 is a member of the frizzled family of proteins which encode seven-transmembrane domain proteins that are receptors for the wingless-type MMTV integration site family of signaling proteins. Frizzled-1 is expressed primarily in the developing lung mesenchyme, in adult heart, placenta, kidney, pancreas, prostate, and ovary. Frizzled-1 interacts with Wnt7b. Additional information: Clone REA603 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.

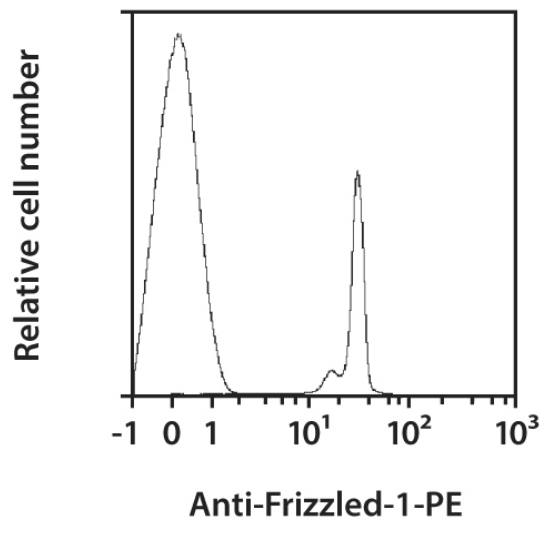
Protocol for cell surface staining

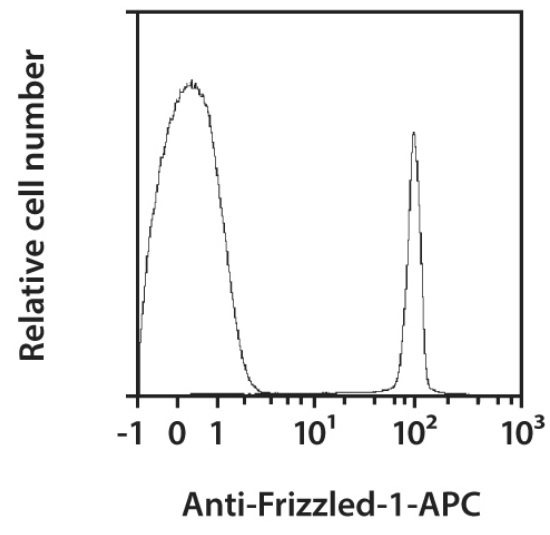
- The recommended antibody dilution for labeling of cells and subsequent analysis by flow cytometry is 1:50 for up to 10^6 cells/100 µL.
- Volumes given below are for up to 10^6 nucleated cells. When working with fewer than 10^6 cells, use the same volumes as indicated. When working with higher cell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

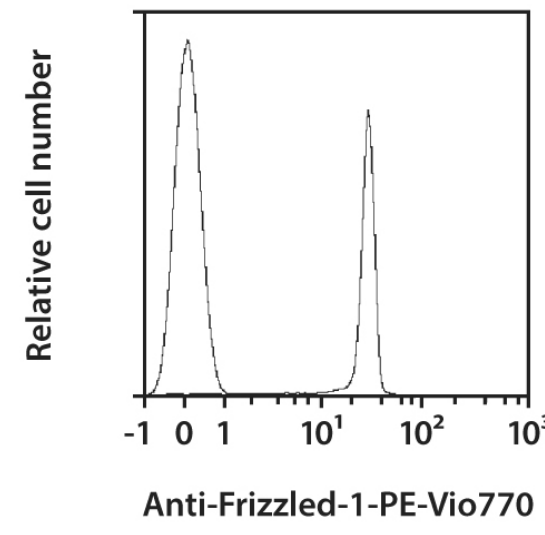
1. Determine cell number.
2. Centrifuge cell suspension at 300×g for 10 minutes. Aspirate supernatant completely.
3. Resuspend up to 10^6 nucleated cells per 98 µL of buffer.
4. Add 2 µL of the antibody.
5. Mix well and incubate for 10 minutes in the dark in the refrigerator (2−8 °C).
   Note: Higher 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.

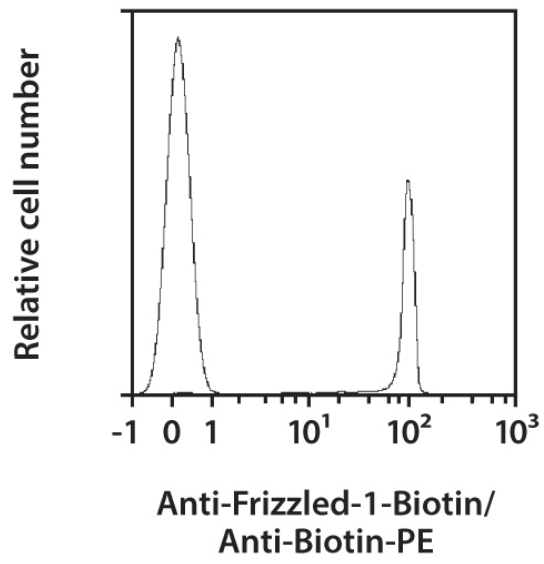
Examples of immunofluorescent staining

Latex beads were coated with recombinant mouse Frizzled-1 protein and then stained with Anti-Frizzled-1 antibodies or with the corresponding REA control antibodies (left peak). Flow cytometry was performed with the MACSQuant®Analyzer.









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.