Miltenyi Biotec

REA Control antibodies

Contents

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 REA Control antibodies

Conjugate	Order no. 30 µg in1 mL
FITC	130-104-626
VioBright™ FITC	130-104-577
PE	130-104-628
APC	130-104-630
VioBlue®	130-104-625
VioGreen™	130-104-624
PE-Vio® 615	130-107-772
PE-Vio770	130-104-632
APC-Vio770	130-104-634
PerCP-Vio700	130-104-637
Vio515	130-109-120
VioBright 515	130-109-707
Biotin	130-104-622

Clone REA293

Product format Antibodies are supplied in buffer containing stabilizer and 0.05% sodium azide.

Storage Store protected from light at 2–8 °C. Do not freeze. The expiration date is indicated on the vial label.

1.1 Background information

- Antigen: keyhole limpet hemocyanin (KLH)
- Expression patterns: The REA Control antibody clone REA293 is a universal isotype control that can be used with all recombinant engineered antibodies (REAfinity™ Antibodies). REAfinity Antibodies have been engineered for their high specificity and contain human IgG1 parts for constant regions. Although REAfinity Antibodies show virtually no binding to Fc receptors, the use of the clone REA293 is still recommended to control for other non Fc receptor–mediated non-specific binding of fluorochrome-conjugated REAfinity Antibodies to cells. Unspecific interactions of the fluorochrome can also be controlled with conjugated versions of clone REA293.

1.2 Applications

- Universal control for all recombinant engineered antibodies (REAfinity Antibodies).

1.3 Recommended antibody dilution

REA Control antibodies should be used at the same concentration as the antibodies of interest.

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 Ca^{2+} or Mg^{2+} 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 REA Control-Biotin.
- (Optional) For antibodies for additional staining, refer to www.miltenyibiotec.com/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.

For a detailed protocol for immunofluorescent staining please refer to the data sheet of the antibody of interest and treat the REA Control antibody the same.

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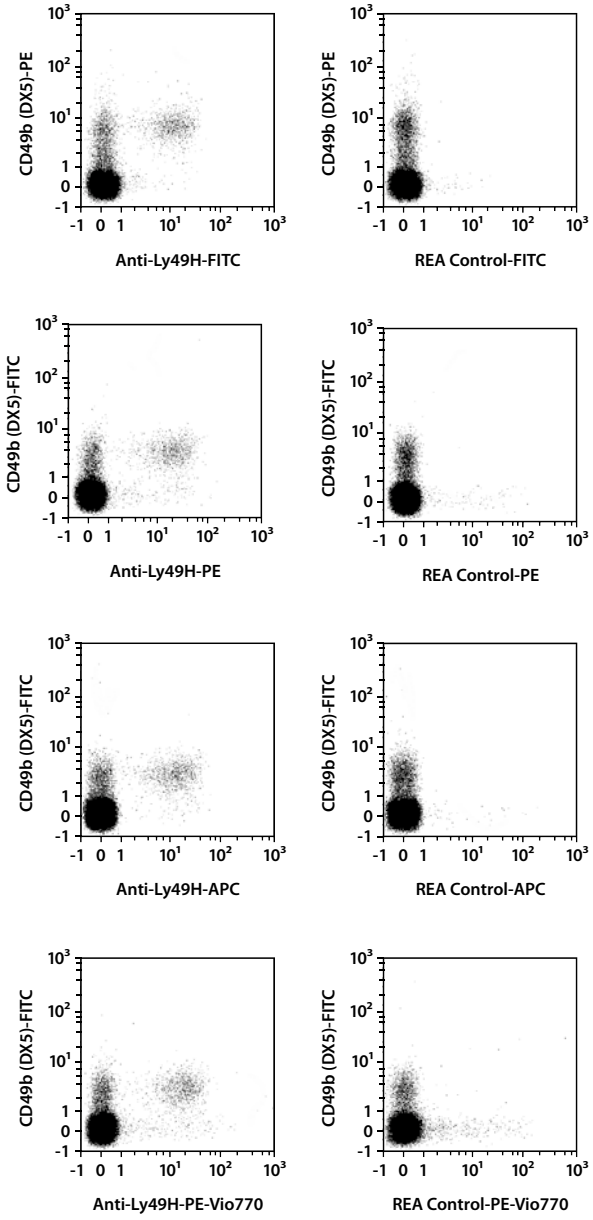
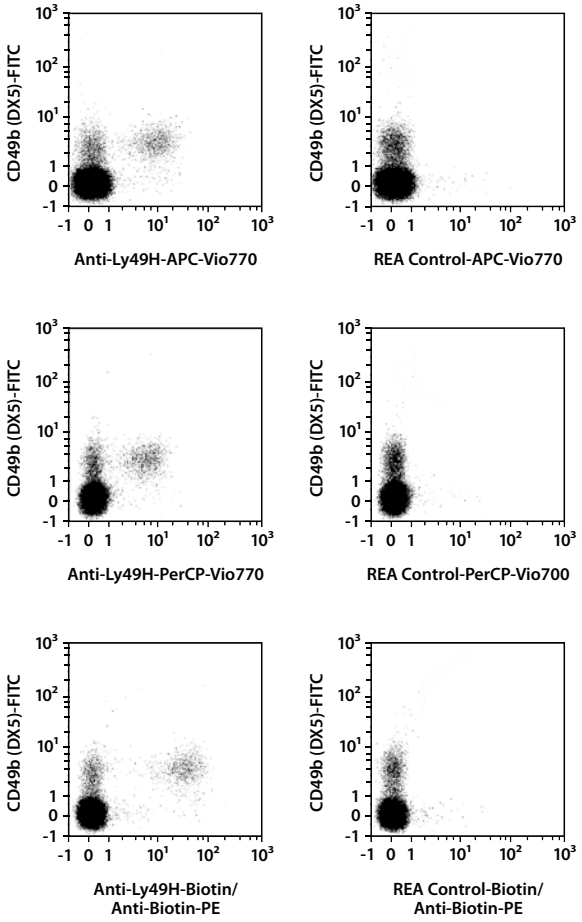
3. Example of immunofluorescent staining with REA Control antibodies

Splenocytes from C57BL/6 mice were stained with REA Control antibodies or with the corresponding Anti-Ly49H antibodies (left images) as well as with CD49b (DX5)-FITC or CD49b (DX5)-PE. 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 oftandem-conjugates.





Refer to www.miltenyibiotec.com for all data sheets and protocols.

Warranty

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