

CD3 antibodies, non-human primate

For research use only

| Product | Content | Order no. |
|-------------------------------|---------------|-------------|
| CD3-PE ¹ | for 30 tests | 130-099-743 |
| CD3-PE ¹ | for 100 tests | 130-092-009 |
| CD3-APC ¹ | for 30 tests | 130-099-690 |
| CD3-APC ¹ | for 100 tests | 130-091-998 |
| CD3-PE-Vio770 ¹ | for 30 tests | 130-104-235 |
| CD3-PE-Vio770 ¹ | for 100 tests | 130-104-202 |
| CD3-APC-Vio770 ¹ | for 30 tests | 130-104-236 |
| CD3-APC-Vio770 ¹ | for 100 tests | 130-104-203 |
| CD3-PerCP-Vio700 ¹ | for 30 tests | 130-104-237 |
| CD3-PerCP-Vio700 ¹ | for 100 tests | 130-104-204 |
| CD3-Biotin ¹ | for 30 tests | 130-099-745 |
| CD3-Biotin ¹ | for 100 tests | 130-092-008 |

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

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 | CD3 |
| Clone | 10D12 |
| Isotype | mouse IgG1κ |
| Isotype control | Mouse IgG1 – isotype control antibodies |
| Alternative names of antigen | T3 |
| Distribution of antigen | NK cells, T cells, thymocytes |
| 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. |

Clone 10D12 is a monoclonal anti-simian CD3 antibody and reacts with rhesus monkey (*Macaca mulatta*) and cynomolgus monkey (*Macaca fascicularis*) T cells. The antibody has been reported to be cross-reactive with pigtail monkey (*Macaca nemestrina*) and african green monkey (*Chlorocebus aethiops*) T cells. CD3 is expressed on all T cells and is associated with the T cell receptor.

Reagent requirements

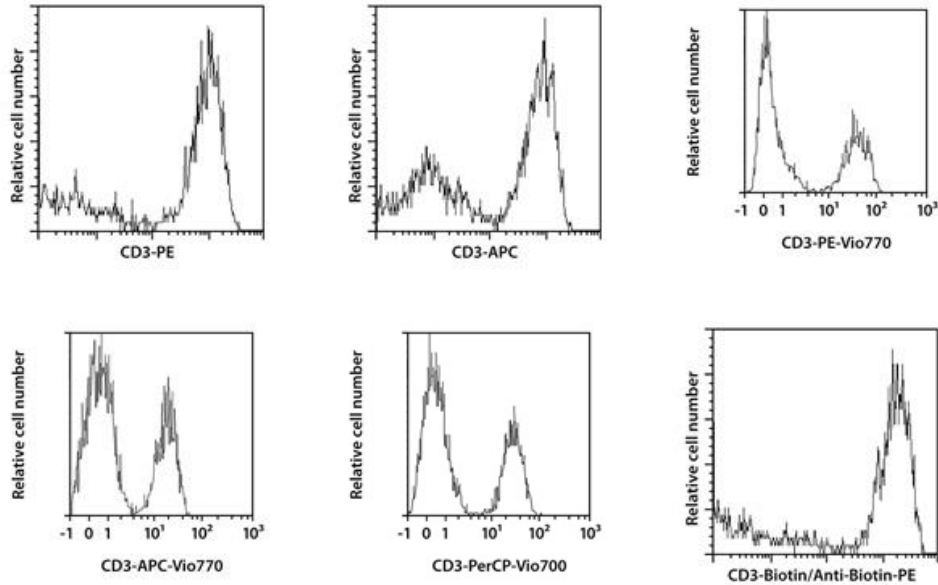
- Buffer: Prepare a solution containing phosphate-buffered saline (PBS), pH 7.2, 0.5% bovine serum albumin (BSA), and 2 mM EDTA by diluting MACS[®] BSA Stock Solution (# 130-091-376) 1:20 with autoMACS[®] Rinsing Solution (# 130-091-222). Keep buffer cold (2–8 °C).
Note: EDTA can be replaced by other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

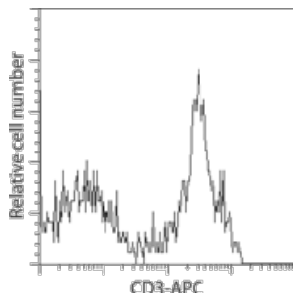
- The recommended antibody dilution for labeling of cells and subsequent analysis by flow cytometry is 1:11 for up to 10⁷ cells/100 µL of buffer.
 - Volumes given below are for up to 10⁷ nucleated cells. When working with fewer than 10⁷ cells, use the same volumes as indicated. When working with higher 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).
1. Determine cell number.
 2. Centrifuge cell suspension at 300×g for 10 minutes. Aspirate supernatant completely.
 3. Resuspend up to 10⁷ 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

Rhesus monkey peripheral blood lymphocytes were stained with CD3 antibodies and analyzed by flow cytometry. Cell debris and dead cells were excluded from the analysis based on scatter signals and propidium iodide fluorescence.



Cynomolgus monkey peripheral blood lymphocytes were stained with CD3-APC and analyzed by flow cytometry. Cell debris and dead cells were excluded from the analysis based on scatter signals and propidium iodide fluorescence.



Warranty

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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
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