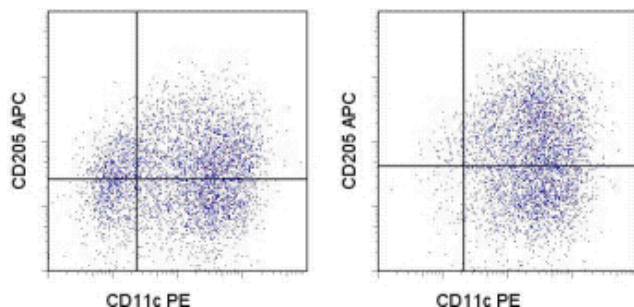


## Anti-Mouse CD205 APC

**Catalog Number:** 17-2051

**Also Known As:** DEC205, Ly75

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of day 6 (left) or day 9 (right) in vitro-cultured bone marrow-derived dendritic cells with Anti-Mouse CD11c PE (cat. 12-0114) and 0.015 ug of Anti-Mouse CD205 APC. Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD205 APC

**REF** **Catalog Number:** 17-2051

**Clone:** 205yekta

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### Description

The 205yekta antibody reacts with mouse CD205, also known as DEC-205 (dendritic and epithelial cells, 205 kDa). CD205 is an integral membrane glycoprotein involved in antigen uptake, trafficking and presentation that improves the induction of antigen-specific T cell immunity. CD205 is highly expressed by CD8+ dendritic cells (DCs) and also expressed at different levels by bone marrow Gr1+ cells, Langerhans cells, (BMDC) bone marrow derived DCs and thymic epithelial cells.

CD205 has been shown to bind to PE-Cy5.5 antibody and streptavidin conjugates; therefore, this format should not be used on CD205+ dendritic cells.

### Applications Reported

This 205yekta antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 205yekta antibody has been tested by flow cytometric analysis of *in vitro*-cultured bone marrow-derived dendritic cells or mouse bone marrow cells. This can be used at less than or equal to 0.03 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Park CG, Rodriguez A, Steinman RM. PE-Cy5.5 conjugates bind to the cells expressing mouse DEC205/CD205. J Immunol Methods. 2012 Oct 31;384(1-2):184-90.

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Swiggard WJ, Mirza A, Nussenzweig MC, Steinman RM. DEC-205, a 205-kDa protein abundant on mouse dendritic cells and thymic epithelium that is detected by the monoclonal antibody NLDC-145: purification, characterization, and N-terminal amino acid sequence. Cell Immunol. 1995 Oct 15;165(2):302-11.

Witmer-Pack MD, Swiggard WJ, Mirza A, Inaba K, Steinman RM. Tissue distribution of the DEC-205 protein that is detected by the monoclonal antibody NLDC-145. II. Expression in situ in lymphoid and nonlymphoid tissues. Cell Immunol. 1995 Jun;163(1):157-62.

Inaba K, Swiggard WJ, Inaba M, Meltzer J, Mirza A, Sasagawa T, Nussenzweig MC, Steinman RM. Tissue distribution of the DEC-205 protein that is detected by the monoclonal antibody NLDC-145. I. Expression on dendritic cells and other subsets of mouse leukocytes. Cell Immunol. 1995 Jun;163(1):148-56.

Kraal G, Breel M, Janse M, Bruin G. Langerhans' cells, veiled cells, and interdigitating cells in the mouse recognized by a monoclonal antibody. J Exp Med. 1986 Apr 1;163(4):981-97.

**Related Products**

12-0114 Anti-Mouse CD11c PE (N418)

17-4321 Rat IgG2a K Isotype Control APC (eBR2a)

25-5931 Anti-Mouse Ly-6G (Gr-1) PE-Cy7 (RB6-8C5)

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