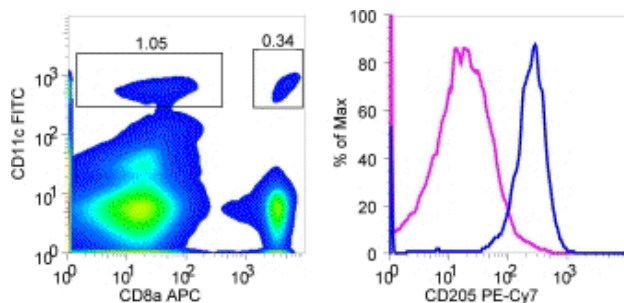


Anti-Mouse CD205 PE-Cyanine7

Catalog Number: 25-2051

Also Known As: DEC205, Ly75

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



Staining of mouse splenocytes with Anti-Mouse CD11c FITC (cat. 11-0114), Anti-Mouse CD8a APC (cat. 17-0081) and Anti-Mouse CD205 PE-Cyanine7. The histogram (right) demonstrates staining of CD205 on CD11c+CD8a- cells (purple histogram) and CD11c+CD8a+ cells (blue histogram), as gated in the dot plot (left).

Product Information

Contents: Anti-Mouse CD205 PE-Cyanine7

REF **Catalog Number:** 25-2051

Clone: 205yekt

Concentration: 5 µL (0.007 µg)/test

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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



LOT **Batch Code:** Refer to Vial

Use By: Refer to Vial

Caution, contains Azide



Description

The 205yekt 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 205yekt antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 205yekt antibody has been pre-titrated and tested by flow cytometric analysis of in vitro-cultured bone marrow-derived dendritic cells or mouse granulocytes. This can be used at 5 µL (0.007 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 10⁵ to 10⁸ cells/test.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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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

11-0114 Anti-Mouse CD11c FITC (N418)

17-0081 Anti-Mouse CD8a APC (53-6.7)

17-5931 Anti-Mouse Ly-6G (Gr-1) APC (RB6-8C5)

25-4321 Rat IgG2a K Isotype Control PE-Cyanine7 (eBR2a)

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