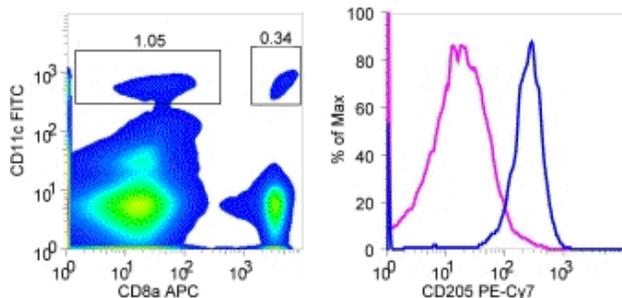


Anti-Mouse CD205 PE-Cyanine7

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: 205yekta

Concentration: 5 μ L (0.007 μ g)/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 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 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 μ L (0.007 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 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 μ L cell sample + 100 μ L 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

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.

Bonifaz LC, Bonnyay DP, Charalambous A, Darguste DI, Fujii S, Soares H, Brimnes MK, Moltedo B, Moran TM, Steinman RM. In vivo targeting of antigens to maturing dendritic cells via the DEC-205 receptor improves T cell vaccination. J Exp Med. 2004 Mar 15;199(6):815-24.

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)

Legal

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