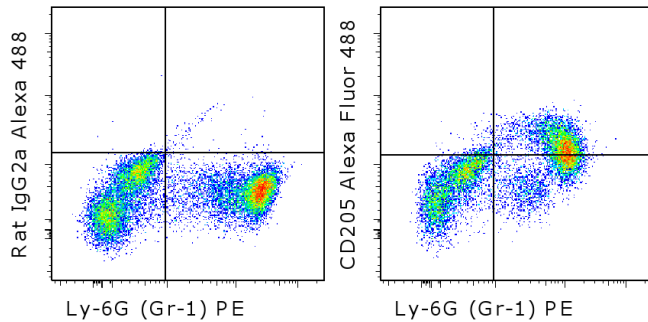


Anti-Mouse CD205 Alexa Fluor[®] 488

Catalog Number: 53-2051

Also known as: DEC-205, Ly75

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



Staining of C57Bl/6 bone marrow cells with Anti-Mouse Ly-6G (Gr-1) PE (cat. 12-5931) and 0.125 μ g of Rat IgG2a K Isotype Control Alexa Fluor[®] 488 (cat. 53-4321) (left) or 0.125 μ g of Anti-Mouse CD205 Alexa Fluor[®] 488 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD205 Alexa Fluor[®] 488

REF **Catalog Number:** 53-2051

Clone: 205yekta

Concentration: 0.5 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

Contains sodium 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 mouse bone marrow cells. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ 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.

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

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com

Anti-Mouse CD205 Alexa Fluor[®] 488

Catalog Number: 53-2051

Also known as: DEC-205, Ly75

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

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

12-5931 Anti-Mouse Ly-6G (Gr-1) PE (RB6-8C5)

53-4321 Rat IgG2a K Isotype Control Alexa Fluor[®] 488 (eBR2a)

Legal

Alexa Fluor[®] and Pacific Blue[®] are registered trademarks of and licensed under patents assigned to Molecular Probes, Inc. for research use only. This product is subject to an agreement between Molecular Probes, Inc. and eBioscience, and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications and corresponding foreign equivalents, owned by Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corp). The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product for life science research or as an ASR. The buyer cannot use this product for manufacturing or for any other screening (specifically including use in combination with microarrays or High Content Screening) or testing purpose, other than as an ASR. For information on purchasing a license to this product for purposes other than life science research or use as an ASR, contact Molecular Probes, Inc.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com