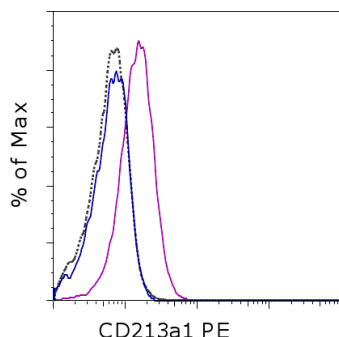


Anti-Mouse CD213a1 (IL-13 Receptor alpha 1) PE

Catalog Number: 12-2130

Also known as: IL-13Ra1

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



Splenocytes were cultured and stimulated with Anti-Mouse CD3 and Anti-Mouse CD28 for 3 days or harvested fresh on day 3 and then surface-stained with 0.25 µg of Anti-Mouse CD213a1 (IL-13Ra1) PE. The plot is an overlay of the stimulated cells (purple) and freshly isolated splenocytes (blue). Isotype control staining of the stimulated cells is indicated by the dotted line. Cells in the CD4⁺ lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD213a1 (IL-13 Receptor alpha 1) PE

 **Catalog Number:** 12-2130

Clone: 13MOKA

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



 **LOT**



Description

The 13MOKA monoclonal antibody reacts with mouse CD213 alpha 1 (interleukin-13 receptor alpha 1, IL-13Ra1). CD213a1 is the low-affinity IL-13 receptor which mediates normal IL-13 inflammatory signaling. It has been shown that CD213a1 binds to IL-13 which then recruits CD124 (IL-4Rα) to stabilize the low-affinity interaction and form the active signaling complex. The CD213a1/CD124 complex can also serve as a receptor for IL-4, although the role of CD213a1 in this complex is poorly understood. CD213a1 is expressed on activated B and T cells and other cells.

Applications Reported

This 13MOKA antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 13MOKA antibody has been tested on mouse splenocytes stimulated for 3 days with Anti-CD3 and Anti-CD28 Functional Grade antibodies. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Newcomb DC, Zhou W, Moore ML, Goleniewska K, Hershey GK, Kolls JK, Peebles RS Jr. A functional IL-13 receptor is expressed on polarized murine CD4⁺ Th17 cells and IL-13 signaling attenuates Th17 cytokine production. *J Immunol.* 2009 May 1;182(9):5317-21.

Munitz A, Brandt EB, Mingler M, Finkelman FD, Rothenberg ME. Distinct roles for IL-13 and IL-4 via IL-13 receptor alpha1 and the type II IL-4 receptor in asthma pathogenesis. *Proc Natl Acad Sci U S A.* 2008 May 20;105(20):7240-5.

LaPorte SL, Juo ZS, Vaclavikova J, Colf LA, Qi X, Heller NM, Keegan AD, Garcia KC. Molecular and structural basis of cytokine receptor pleiotropy in the interleukin-4/13 system. *Cell.* 2008 Jan 25;132(2):259-72.

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Hajoui O, Zheng H, Guay J, Letuve S, Fawaz LM, Mazer BD. Regulation of IL-13 receptor alpha 1 expression and signaling on human tonsillar B-lymphocyte subsets. J Allergy Clin Immunol. 2007 Dec;120(6):1425-32.

Related Products

11-0042 Anti-Mouse CD4 FITC (RM4-5)

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)