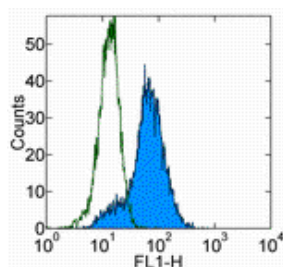


Anti-Mouse CD25 Purified

Catalog Number: 14-0251

Also Known As: Interleukin-2 Receptor alpha


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



Staining of 3-day ConA activated C57Bl/6 splenocytes with 0.25 ug of Rat IgG1 Isotype Control Purified (cat. 14-4301) (open histogram) or 0.25 ug of Anti-Mouse CD25 Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD25 Purified

 Catalog Number: 14-0251

Clone: PC61.5

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG1, lambda

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



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Contains sodium azide

Description

The PC61.5 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor alpha chain (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineage as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor. Binding of IL-2 to both the high and low affinity classes of IL-2 receptor is inhibited by the PC61.5 antibody. CD25 plays a role in lymphocyte differentiation and activation/proliferation.

Applications Reported

The PC61.5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The PC61.5 antibody has been tested by flow cytometric analysis of mouse splenocyte cell suspensions and ConA-activated splenocyte culture. 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

Tuve S, Chen BM, Liu Y, Cheng TL, Touré P, Sow PS, Feng Q, Kiviat N, Strauss R, Ni S, Li ZY, Roffler SR, Lieber A. Combination of tumor site-located CTL-associated antigen-4 blockade and systemic regulatory T-cell depletion induces tumor-destructive immune responses. *Cancer Res.* 2007 Jun 15;67(12):5929-39. (PC61.5, in vivo depletion, PubMed)

Huang B, Zhao J, Shen S, Li H, He KL, Shen GX, Mayer L, Unkeless J, Li D, Yuan Y, Zhang GM, Xiong H, Feng ZH. *Listeria monocytogenes* promotes tumor growth via tumor cell toll-like receptor 2 signaling. *Cancer Res.* 2007 May 1;67(9):4346-52. (PC61.5, in vivo depletion, PubMed)

Hayashi T, Hasegawa K, Adachi C. Elimination of CD4+CD25+ T cell accelerates the development of glomerulonephritis during the preactive phase in autoimmune-prone female NZB × NZW F1 mice. *Int J Exp Pathol.* 2005 Oct;86(5):289-96. (PC61.5, in vivo depletion, PubMed)

Lowenthal JW, Corthésy P, Tougne C, Lees R, MacDonald HR, Nabholz M. High and low affinity IL 2 receptors: analysis by IL 2 dissociation rate and reactivity with monoclonal anti-receptor antibody PC61. *J Immunol.* 1985 Dec;135(6):3988-94.

Lowenthal JW, Zubler RH, Nabholz M, MacDonald HR. Similarities between interleukin-2 receptor number and affinity on activated B and T lymphocytes. *Nature.* 1985 Jun 20-26;315(6021):669-72.

Lowenthal JW, Tougne C, MacDonald HR, Smith KA, Nabholz M. Antigenic stimulation regulates the expression of IL 2 receptors in a cytolytic T

lymphocyte clone. J Immunol. 1985 Feb;134(2):931-9.

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4301 Rat IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

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