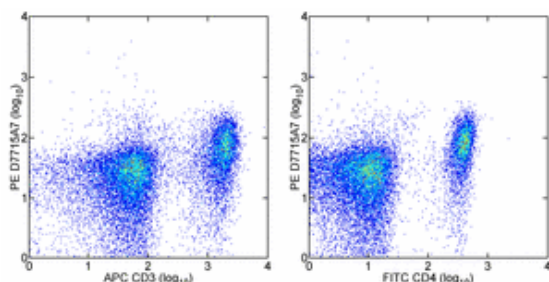


Anti-Mouse CD126 PE

Catalog Number: 12-1261

Also Known As: Interleukin-6 Receptor alpha, IL-6Ra

RUO: For Research Use Only



Staining of BALB/c splenocytes with Anti-Mouse CD3e APC (cat. 17-0031) (left) or Anti-Mouse CD4 FITC (cat. 11-0041) (right) and 0.06 µg of Anti-Mouse CD126 PE. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD126 PE

REF Catalog Number: 12-1261

Clone: D7715A7

Concentration: 0.2 mg/ml

Host/Isotype: Rat IgG2b

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



Caution, contains Azide

Description

The monoclonal antibody D7715A7 recognizes mouse CD126, the IL-6 receptor α chain, a member of the Ig superfamily. CD126 can heterodimerize with CD130 (gp130) to form the high affinity IL-6 receptor. Once IL-6 is bound, signaling from the CD130 subunit is initiated and the receptor complex is internalized. The IL-6 receptor is also reported to exist as a soluble version, which bound to IL-6 acts in trans to signal. Expression is found on T lymphocytes in the periphery and during development in the thymus is restricted to SP populations, unlike gp130 which is expressed in all thymocytes. Additional expression has been shown on activated B lymphocytes, macrophages, granulocytes and CD34+ hematopoietic progenitor cells. The monoclonal antibody D7715A7 binding can be blocked addition of ligand (IL-6).

Applications Reported

This D7715A7 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This D7715A7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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 11^5 to 10^8 cells/20 µl (0.25 µg)

References

Betz UA, Müller W. Regulated expression of gp130 and IL-6 receptor alpha chain in T cell maturation and activation. *Int Immunol*. 1998 Aug;10(8):1175-84.

Hurchla MA, Sedy JR, Murphy KM. Unexpected role of B and T lymphocyte attenuator in sustaining cell survival during chronic allostimulation. *J Immunol*. 2007 May 15;178(10):6073-82. (D17715A7, FC, PubMed)

Koizumi N, Yamaguchi T, Kawabata K, Sakurai F, Sasaki T, Watanabe Y, Hayakawa T, Mizuguchi H. Fiber-modified adenovirus vectors decrease liver toxicity through reduced IL-6 production. *J Immunol*. 2007 Feb 1;178(3):1767-73. (D17715A7, FA, PubMed)

Vink A, Coulie P, Warnier G, Renauld JC, Stevens M, Donckers D, Van Snick J. Mouse plasmacytoma growth in vivo: enhancement by interleukin 6 (IL-6) and inhibition by antibodies directed against IL-6 or its receptor. *J Exp Med*. 1990 Sep 1;172(3):997-1000. (D17715A7, FA, PubMed)

Related Products

12-4031 Rat IgG2b K Isotype Control PE

14-1302 Anti-Mouse CD130 Purified (KGP130)

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