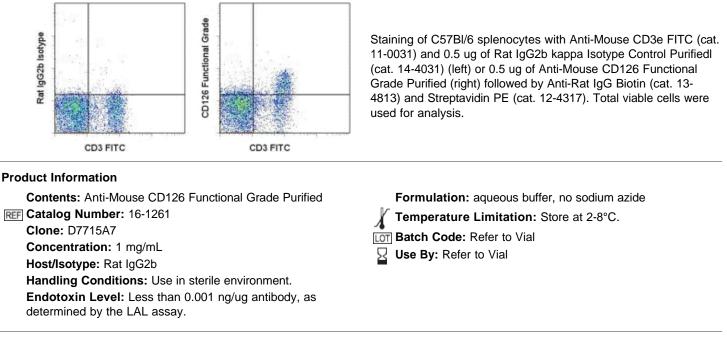


Anti-Mouse CD126 Functional Grade Purified

Catalog Number: 16-1261 Also Known As:Interleukin-6 Receptor alpha, IL-6Ra RUO: For Research Use Only. Not for use in diagnostic procedures.



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 and has also been reported to block cytokine binding and inhibit in vitro and in vivo growth of cells dependent on IL-6.

Applications Tested

This D7715A7 antibody has been tested by blocking of direct conjugate when staining mouse splenocytes. This can be used at less than or equal to 1 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

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