

Anti-Human TSLP Receptor PE

Catalog Number: 12-5499

Also known as: thymic stromal derived lymphopoietin receptor, CRLF-2 RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of human TSLP Receptor transfected cells with Mouse IgG2a K Isotype Control PE (cat. 12-4724) (blue histogram) or Anti-Human TSLP Receptor PE (purple histogram). Total viable cells were used for analysis.

Product Information



Description

The eBio1A6 monoclonal antibody reacts with human thymic stromal-derived lymphopoietin receptor (TSLPR). TSLPR is an approximately 50 kDa protein with significant similarity to the common gamma-chain. TSLPR complexes with IL-7R alpha (CD127) to form the high affinity receptor that binds thymic stromal-derived lymphopoietin (TSLP). Human TSLPR is expressed by monocytes and CD11c+ dendritic cells, and TSLP binding induces the expression of the Th2 cell-attracting chemokines CCL17 and CCL22. Furthermore, the TSLPR-induced activation of dendritic cells indirectly results in the increased secretion of Th cytokines IL-4, -5 and -13, which may be necessary for the regulation of CD4+ T cell homeostasis. In mice, deficiency of TSLPR has no effect on lymphocyte numbers, whereas double deficiency of TSLPR and common gamma-chain results in fewer lymphocytes than seen in mice deficient in the common gamma-chain alone. The eBio1A6 monoclonal antibody is able to cross-block binding of another antihuman TSLPR monoclonal antibody, 1D8.

Applications Reported

This eBio1A6 (1A6) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio1A6 (1A6) antibody has been pre-titrated and tested by flow cytometric analysis of human TSLPRtransfected Ba/F3 cells. This can be used at 5 μ L (0.06 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.

References

Reche PA, Soumelis V, Gorman DM, Clifford T, Liu Mr, Travis M, Zurawski SM, Johnston J, Liu YJ, Spits H, de Waal Malefyt R, Kastelein RA, Bazan JF. Human thymic stromal lymphopoietin preferentially stimulates myeloid cells. J Immunol. 2001 Jul 1;167(1):336-43.

Soumelis V, Reche PA, Kanzler H, Yuan W, Edward G, Homey B, Gilliet M, Ho S, Antonenko S, Lauerma A, Smith K, Gorman D, Zurawski S, Abrams J, Menon S, McClanahan T, de Waal-Malefyt Rd R, Bazan F, Kastelein RA, Liu YJ.



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Human epithelial cells trigger dendritic cell mediated allergic inflammation by producing TSLP.Nat Immunol. 2002 Jul;3(7):673-80.

Related Products 12-4724 Mouse IgG2a K Isotype Control PE 17-0116 Anti-Human CD11c APC (3.9)