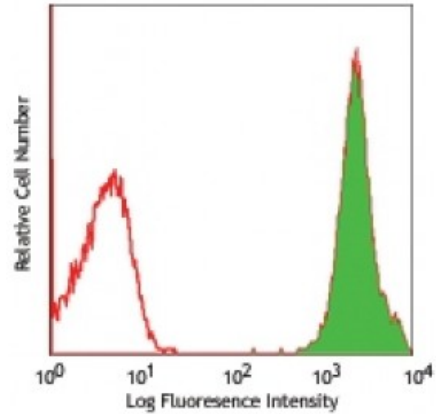


PE anti-human TSLPR (TSLP-R)

Catalog # / Size: 2214530 / 100 tests
Clone: 1D3
Isotype: Mouse IgG2a, λ
Immunogen: Human TSLP-R:Fc protein
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration: Lot-specific



Human TSLPR transfected cells stained with 1D3 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 322905/322906) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-mouse IgG (Cat. No. 405303) second step, followed by SAV-PE (Cat. No. 405204)).

Application References: 1. Bouchlaka MN, *et al.* 2013. *J Exp Med.* 210:2223. [PubMed](#)

Description: TSLP-R, also known as thymic stromal lymphopoietin protein receptor, cytokine receptor-like 2, CRL2, and IL-XR, is a type I membrane receptor that forms a functional heterodimeric complex with IL-7R to bind TSLP. The TSLP-R contains a WSXWS motif required for proper protein folding and a box1 motif important for association with the JAKs. TSLP-R has a predicted molecular weight approximately 40 kD, and two isoforms have been reported that are produced by alternative splicing. The TSLP-R is expressed preferentially in myeloid cells including dendritic cells and activated monocytes, and is weakly expressed in T cells. Expression has also been reported in heart, skeletal muscle, and kidney tissues. TSLP binding to the heterodimeric functional receptor (TSLP-R and IL-7R) activates JAK2, STAT3 and STAT5 to stimulate cell proliferation. Ligand receptor interactions have been implicated in the development of the hematopoietic system, dendritic cell maturation, and the maintenance and polarization of human Th2 memory T cells in allergic diseases.

Antigen References: 1. Reche PA, *et al.* 2001. *J. Immunol.* 167:336.
 2. Tonozuka Y, *et al.* 2001. *Cytogenet. Cell. Genet.* 93:23.
 3. Zhang W, *et al.* 2001. *Biochem. Biophys. Res. Commun.* 281:878.

4. Wang YH, <