

**PE anti-human TSLPR (TSLP-R)**

**Catalog # / Size:** 2214030 / 100 tests  
2214025 / 25 tests

**Clone:** 1B4

**Isotype:** Mouse IgG1,  $\kappa$

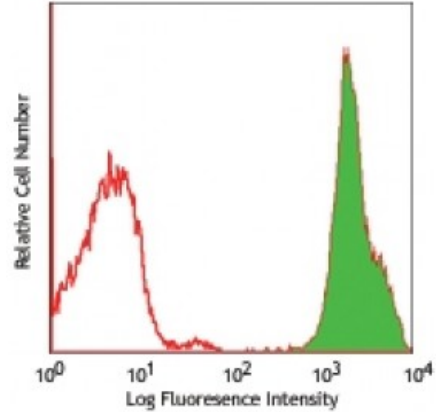
**Immunogen:** Human TSLP-R:Fc protein

**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 1B4 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. 322805/322806) 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)).

**Description:** TSLP-R, also known as the 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 with 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 has two isoforms reported that are produced by alternative splicing. The TSLP-R is expressed preferentially in myeloid cells, dendritic cells, and activated monocytes. It 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 allergy 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,

