SONY

Product Data Sheet

PE anti-human TSLPR (TSLP-R)

Catalog # / Size: 2214530 / 100 tests

Clone: 1D3

Isotype: Mouse IgG2a, λ

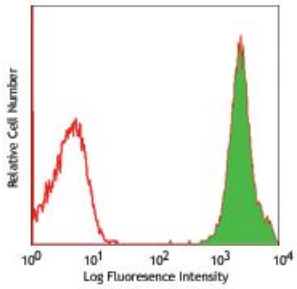
Immunogen: Human TSLP-R:Fc protein

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



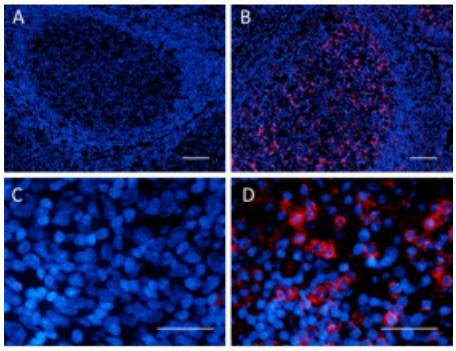
Human TSLPR transfected cells stained with 1D3 PE

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 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl 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)).



IHC staining of purified anti-human CD279 (clone QA19A98) on formalin-fixed paraffin-embedded human tonsil tissue. Following antigen retrieval using 1X Tris-Buffered Saline (final concentration 0.05M) with Tween 20 (Cat. No. 925501) the tissue was incubated with blocking buffer. Tissue was then stained without (panel A) or with 10 µg/mL of primary antibody (panel B) overnight at 4°C, followed by incubation with 2.5 µg/mL of Alexa Fluor® 647 goat anti-mouse IgG (Cat. No. 405322) for one hour at room temperature. Nuclei were counterstained with DAPI (blue) (Cat. No. 422801) and images were captured with 10X (panels A and B) and 40X (panels C and D) objectives. Scale bar: 50 µm

Application References:

1. Bouchlaka MN, *et al.* 2013. *J Exp Med.* 210:2223. PubMed

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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 haves 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, *et al.* 2006. *Immunity* 24:827.

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