

PE anti-human TSLPR Antibody

Catalog# / Size	622355 / 25 tests 622356 / 100 tests
Clone	W202961
Regulatory Status	RUO
Other Names	Thymic stromal lymphopoietin protein receptor, cytokine receptor-like 2, CRL2, CRLF2, IL-XR, TSLP-R
Isotype	Rat IgG2a, κ
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. TSLP-R contains a WSXWS motif required for proper protein folding and a box 1 motif important for association with the JAKs. TSLP-R has a predicted molecular weight of 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 on 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 an allergic response.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant human TSLPR
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3699064 (BioLegend Cat. No. 622355) AB_3699064 (BioLegend Cat. No. 622356)

Antigen Details

Structure	Type I membrane receptor
Distribution	Expressed preferentially in myeloid cells including dendritic cells and activated monocytes, weakly expressed in T cells; also expressed in heart, skeletal, muscle, and kidney cells.
Function	TSLP binding to functional receptor activates JAK2, STAT3, and STAT5 to stimulate cell proliferation. It has also been implicated in the development of the hematopoietic system, dendritic cell maturation, and the maintenance and polarization of human Th2 memory T cells

Interaction	Forms functional heterodimeric complex with IL-7R to bind TSLP
Ligand/Receptor	TSLP/TSLPR
Cell Type	Dendritic cells, Monocytes, T cells, Tregs
Biology Area	Immunology
Molecular Family	Cytokine/Chemokine Receptors

Antigen References

1. Reche PA, et al. 2001. *J Immunol.* 167:336-43.
2. Tonozuka Y, et al. 2001. *Cytogenet. Cell. Genet.* 93:23-5.
3. Zhang W, et al. 2001. *Biochem Biophys Res Commun.* 281:878-83.
4. Wang YH, et al. 2006. *Immunity*, 24:-838.

Gene ID [64109](#)

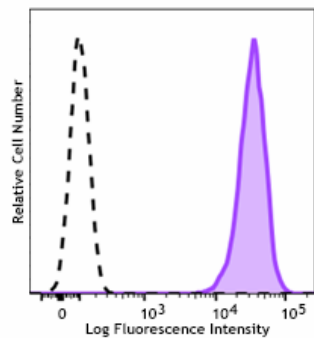
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

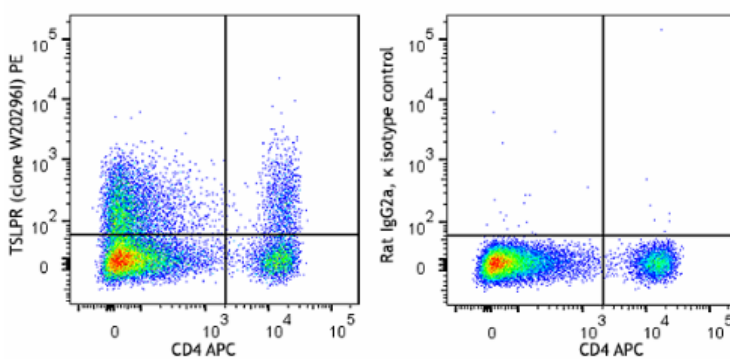
Other Formats

Ultra-LEAF™ Purified anti-human TSLPR, PE anti-human TSLPR Antibody

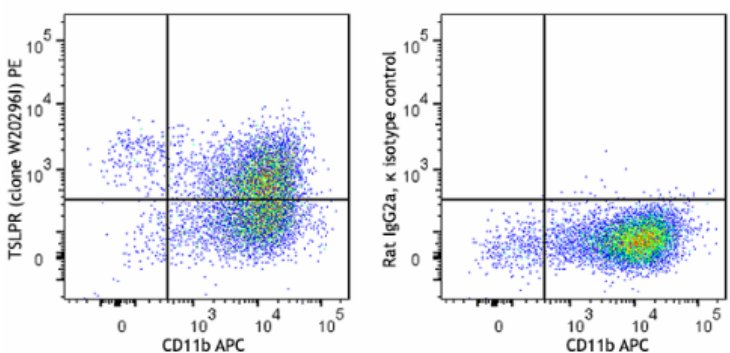
Product Data



Human TSLPR transfected cells were stained with anti-human TSLPR (clone W20296I) PE (filled histogram) or rat IgG2a, κ PE Isotype control (open histogram).



PHA stimulated (4 days) human peripheral blood lymphocytes were stained with anti-human CD4 (clone RPA-T4) APC and anti-human TSLPR (clone W20296I) PE (left) or rat IgG2a, κ PE isotype control (right).



Human monocyte-derived dendritic cells (induced with GM-CSF, IL-4 and TNF-α for 8 days) were stained with anti-human CD11b (clone ICRF44) APC and anti-human TSLPR (clone W20296I) PE (left) or rat IgG2a, κ PE isotype control (right).

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