

Brilliant Violet 421™ anti-mouse TSLPR (TSLP-R) Antibody

Catalog# / Size	151807 / 50 µg
Clone	22H9
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 40kD type I membrane receptor that forms a functional heterodimeric complex with IL-7R and binds with TSLP. TSLPR is required for proper protein folding and a box1 motif important for association with the JAKs. TSLP-R is expressed in myeloid cells, dendritic cells, B cells and activated monocytes. It is weakly expressed in T cells. Expression has also been reported in heart, skeletal, muscle, and kidney tissues. 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	TSLP Receptor Protein
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 Brilliant Violet 421™ under optimal conditions.
Concentration	0.2 mg/ml
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	<p>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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application References	<ol style="list-style-type: none">Isaksen DE, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:3288. (FC)Bell BD, <i>et al.</i> 2013. <i>Nat. Immunol.</i> 14:364. (FC)Iseki M, <i>et al.</i> 2012. <i>International Immunology</i> 24:183. (FC)
(PubMed link indicates BioLegend citation)	

4. Astrakhan A, *et al.* 2007. *Nature Immunology* 8:522. (FC)

Product Citations

1. Wiesner DL, *et al.* 2020. *Cell Host Microbe*. 614:27. [PubMed](#)

RRID

AB_2687305 (BioLegend Cat. No. 151807)

Antigen Details

Structure	Type I membrane receptor, forms functional heterodimeric complex with IL-7R to bind TSLP. Contains WSXWS motif required for proper protein folding and a box1 motif that is important for association with the JAKs.
Distribution	Expressed preferentially in myeloid cells including dendritic cells, B cells, activated monocytes, weakly expressed in T cells. Also expressed in heart, skeletal, muscle, and kidney cells.
Function	Binds to TSLP to stimulate cell proliferation.
Ligand/Receptor	TSLP
Cell Type	Dendritic cells, B cells, Monocytes
Biology Area	Immunology
Molecular Family	Cytokine/Chemokine Receptors
Antigen References	1. Reche PA, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:336. 2. Tonozuka Y, <i>et al.</i> 2001. <i>Cytogenet. Cell Genet.</i> 93:23. 3. Zhang W, <i>et al.</i> 2001. <i>Biochem. Biophys. Res. Commun.</i> 281:878. 4. Wang YH, <i>et al.</i> 2006. <i>Immunity</i> 24:827.
Gene ID	57914

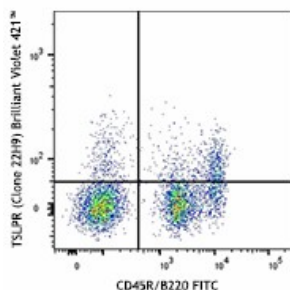
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

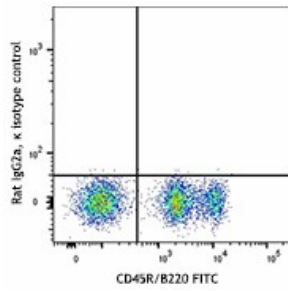
Other Formats

Purified anti-mouse TSLPR (TSLP-R), Biotin anti-mouse TSLPR (TSLP-R), APC anti-mouse TSLPR (TSLP-R), Brilliant Violet 421™ anti-mouse TSLPR (TSLP-R)

Product Data



C57BL/6 bone marrow cells were stained with CD45R/B220 FITC followed by TSLPR (clone 22H9 top) Brilliant Violet 421™ or rat IgG2a, κ Brilliant Violet 421™ isotype control (bottom). Data shown is gated on lymphoid population.



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