

Purified anti-human TSLP Antibody

Catalog# / Size	512202 / 500 µg
Clone	15B11.3
Regulatory Status	RUO
Other Names	Thymic stromal lymphopoietin (TSLP)
Isotype	Mouse IgG1, κ
Description	<p>Thymic Stromal Lymphopoietin (TSLP) is a hemopoietic protein that is expressed in the heart, liver and prostate. TSLP overlaps biological activities with IL-7 and binds with the heterodimeric receptor complex consisting of the IL-7R alpha chain (IL-7Rα) and the TSLP-specific chain (TSLPR). Like IL-7, TSLP induces phosphorylation of STAT3 and STAT5, but uses kinases other than the JAKs for activation. TSLP prohibited apoptosis and stimulated growth of the human acute myeloid leukemia (AML)-derived cell line MUTZ3. It induces the release of T cell-attracting chemokines TARC and MDC from monocytes and activates CD11c(+) dendritic cells (DCs). TSLP activated DCs primed naïve T cells to produce the proallergic cytokines (IL-4, IL-5, IL-13, TNFα) while down-regulating IL-10 and IFN-γ suggesting a role in initiating allergic inflammation. Recent studies revealed that expression of TSLP has a direct link to the pathogenesis of allergic inflammation such as atopic dermatitis and asthma via activating dendritic cells and mast cells which trigger inflammatory Th2 response characterized by high TNF-alpha and little IL-10 production.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human TSLP
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	ELISA Capture - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . For use as an ELISA capture antibody, a concentration range of 1-4 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application. To obtain a linear standard curve, serial dilutions of TSLP recombinant protein ranging from 200 to 3.1 ng/ml are recommended for each ELISA plate.
Application Notes	ELISA Capture: Purified and Ultra-LEAF™ purified 15B11.3 antibody are useful as a capture antibody for a sandwich ELISA assay, when used in conjunction with the biotinylated Poly5159 antibody (Cat. No. 515903) as the detecting antibody.
Application References	1. Yeh CY, <i>et al.</i> 2013. <i>PLoS One</i> . 8:e55472. (Neut) PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_940352 (BioLegend Cat. No. 512202)

Antigen Details

Biology Area Immunology
Molecular Family Cytokines/Chemokines

Antigen References

1. Liu YJ. 2007. *J. Allergy Clin. Immunol.* 120:238.
2. Nagata Y. 2007. *Int. Arch. Allergy Immunol.* 144:305.
3. Jiang Q, et al. 2007 *BMC Immunol.* 8:11.
4. Kato A, et al. 2007. *J. Immunol.* 179:1080.
5. Rochman I, et al. 2007 *J. Immunol.* 178:6720.
6. Reche PA, et al. 2001. *J. Immunol.* 167:336.
7. Pandey A, et al. 2000. *Nat. Immunol.* 1:59.
8. Park LS, et al. 2000. *J Exp. Med.* 192:659.

Gene ID [85480](#)

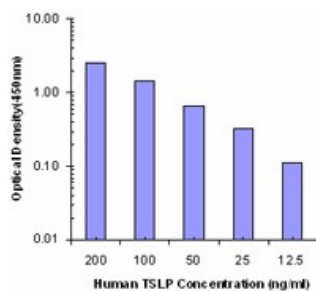
Related Protocols

[Sandwich ELISA Protocol](#)

Other Formats

Purified anti-human TSLP, Ultra-LEAF™ Purified anti-human TSLP

Product Data



Human TSLP Direct ELISA (Clone 15B11)

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