

Purified anti-human TSLP Antibody

Catalog# / Size	512102 / 500 µg
Clone	13H8.3
Regulatory Status	RUO
Other Names	Thymic stromal derived lymphopoietin
Isotype	Mouse IgG1, κ
Description	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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
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
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . For use as an ELISA detection antibody, a concentration range of 0.5-2 µg/ml is recommended. 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. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_940339 (BioLegend Cat. No. 512102)

Antigen Details

Biology Area	Immunology
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> Liu YJ. 2007. J Allergy Clin Immunol. 120:238. Nagata Y. 2007 Int Arch Allergy Immunol. 144:305. Jiang Q, <i>et al.</i> 2007 BMC Immunol. 8:11. Kato A. <i>et al.</i> 2007. J Immunol. 179:1080. Rochman I, <i>et al.</i> 2007 J Immunol. 178(11):6720. Reche PA, <i>et al.</i> 2001. J Immunol. 167:336. Pandey A, <i>et al.</i> 2000. Nature Immunol. 1:59.

7. Park LS, *et al.* 2000. J Exp. Med. 192:659.

Gene ID

[85480](#)

Related Protocols

[Sandwich ELISA Protocol](#)

Other Formats

Purified anti-human TSLP

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