BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-human TSLP

Catalog # / Size: 512203 / 50 µg
512204 / 500 µg

Clone: 15B11.3

Isotype: Mouse IgG1, κ

Immunogen: Recombinant human TSLP

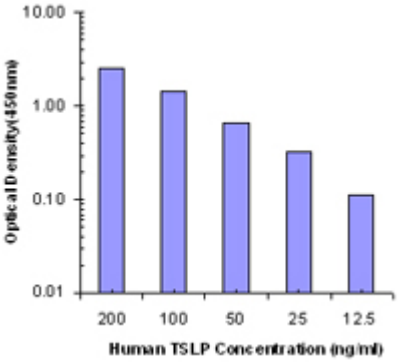
Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human TSLP Direct ELISA (Clone 15B11)

Applications:

Applications: ELISA Capture - *Quality tested*
Neut - *Reported in the literature*

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 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 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 and recombinant human TSLP (Cat. No. 582409) as the standard.

Application References: 1. Yeh CY, *et al*. 2013. *PLoS One*. 8:e55472. (Neut) PubMed

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.

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.

Related Products:

Product	Clone	Application
Biotin anti-human TSLP	Poly5159	ELISA Detection
Recombinant Human TSLP (ELISA Std.)		ELISA

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