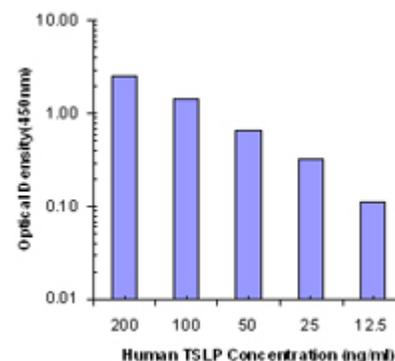


## Purified anti-human TSLP

**Catalog # / Size:** 512202 / 500 µg  
**Clone:** 15B11.3  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** Recombinant human TSLP  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5 mg/ml  
**Storage:** The antibody solution should be stored undiluted at 4°C.



Human TSLP Direct ELISA (Clone 15B11)

## Applications:

**Applications:** 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 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.

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

### Related Products:

**Product**  
 Biotin anti-human TSLP  
 Recombinant Human TSLP (ELISA Std.)

**Clone**  
 Poly5159

**Application**  
 ELISA Detection  
 ELISA



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