

## **Mouse TSLP Biotinylated Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF555

Species Reactivity	Mouse
Specificity	Detects mouse TSLP in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human (rh) TSLP, rhTSLP R, and recombinant mouse TSLP R is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant mouse TSLP (R&D Systems, Catalog # 555-TSB)  Tyr20-Glu140  Accession # Q9JIE6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

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	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Mouse TSLP (Catalog # 555-TS)	
Mouse TSLP Sandwich Immunoassay		Reagent	
ELISA Capture	2-8 μg/mL	Mouse TSLP Antibody (Catalog # MAB5551)	
ELISA Detection	0.1-0.4 μg/mL	Mouse TSLP Biotinylated Antibody (Catalog # BAF555)	
Standard		Recombinant Mouse TSLP (Catalog # 555-TS)	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70 °C as supplied.  1 month, 2 to 8 °C under sterile conditions after reconstitution.  6 months, -20 to -70 °C under sterile conditions after reconstitution.	

## BACKGROUND

Thymic Stromal Lymphopoietin (TSLP) was originally identified as an activity from the conditioned medium of a mouse thymic stromal cell line that promoted the development of B cells. The activities of mouse TSLP overlap with, but are distinct from, those of mouse IL-7. Both mouse TSLP and IL-7 can co-stimulate growth of thymocytes and mature T cells, and support B lymphopoiesis in long-term cultures of fetal liver cells and bone-marrow cells. Whereas mouse IL-7 facilitates the development of B220+/IgM- pre-B cells, mouse TSLP promotes the development B220+/IgM+ B cells. Human TSLP was reported to preferentially stimulate myeloid cells; inducing the release of T cell-attracting chemokines from monocytes and enhancing the maturation of CD11c+ dendritic cells. Mouse TSLP cDNA encodes a 140 amino acid (aa) residue precursor protein with a 19 aa signal sequence. Within the mature region, there are three potential N-glycosylation sites and 7 cysteine residues. Mouse TSLP shares approximately 43% aa sequence identity with human TSLP. The gene for mouse TSLP has been localized to chromosome 18. By Northern and RT-PCR analysis, mouse TSLP expression has been detected in spleen, thymus, kidney, lung and bone marrow. TSLP is proposed to signal through a heterodimeric receptor complex that consists of IL-7 Rα and the TSLP R, a new member of the hemopoietin receptor family most closely related to Rγc.

## References:

- 1. Sims, J.E. et al. (2000) J. Exp. Med. 192:671.
- 2. Park, L.S. et al. (2000) J. Exp. Med. 192:659.
- 3. Pandey, A. et al. (2000) Nature Immunol. 1:59.
- 4. Reche, P.A. et al. (2001) J. Immunol. 167:336.



