

Anti-Thymic stromal lymphopoietin TSLP Antibody

Catalog Number: A01096-4

About TSLP

Thymic stromal lymphopoietin (TSLP) has recently been identified as an important factor capable of driving dendritic cell maturation and activation. TSLP is a four-helix-bundle cytokine that is expressed mainly by barrier epithelial cells and is a potent activator of several cell types such as myeloid dendritic cells. TSLP is involved in the positive selection of regulatory T cells, maintenance of peripheral CD4+ T cell homeostasis and the induction of CD4+ T cell-mediated allergic reaction. TSLP is also capable of supporting the growth of fetal liver and adult B cell progenitors and their differentiation to the IgM-positive stage of B cell development. Amino acid sequence analysis has shown poor homology between human and mouse TSLP although they exhibit similar biological functions and are expressed in similar tissues. At least two differentially spliced isoforms of TSLP are known to exist.

Overview

Product Name	Anti-Thymic stromal lymphopoietin TSLP Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Thymic stromal lymphopoietin TSLP Antibody (Catalog # A01096-4). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TSLP Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TSLP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q969D9

Technical Details

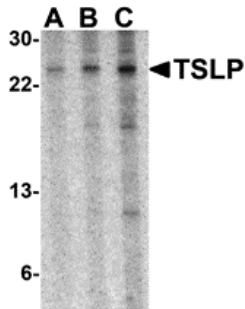
Immunogen	Anti-TSLP antibody was raised against a peptide corresponding to 20 amino acids near the center of mouse TSLP. The immunogen is located within the amino acids 70-120 of TSLP.
Predicted Reactive Species	Bovine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TSLP Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

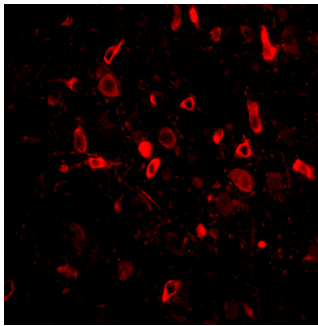
WB: 0.5 - 2 ug/mL; IHC-P: 2.5 ug/mL; IF: 20 ug/mL.

Antibody validated: Western Blot in mouse samples; Immunohistochemistry in mouse and rat samples; Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

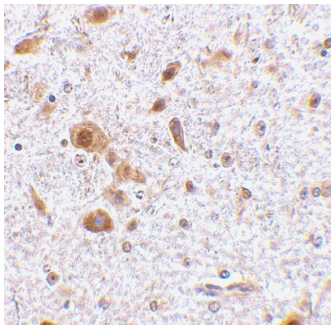
Anti-Thymic stromal lymphopoietin TSLP Antibody (A01096-4) Images



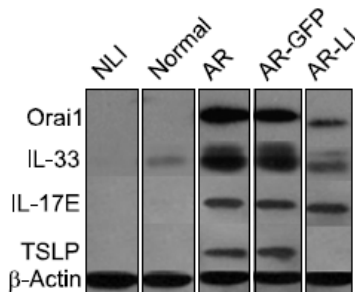
Western Blot Validation in Mouse A-20 Cell Lines Loading: 15 ug of lysates per lane. Antibodies: TSLP A01096-4 (A: 0.5 ug/mL, B: 1 ug/mL, C: 2 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of TSLP in Mouse Brain Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed Mouse Brain Tissue labeling TSLP with A01096-4 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

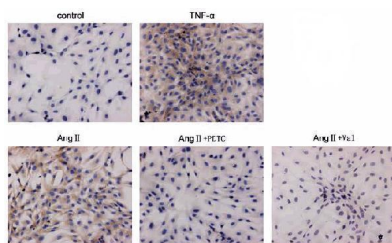


Immunohistochemistry Validation of TSLP in Mouse Brain Tissue Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using anti-TSLP antibody (A01096-4) at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Induction Validation of TSLP in Nasal Mucosa of Allergic Rhinitis (AR) mice (Wang et al., 2012) Western Blot images showing the TSLP protein detected by anti-mouse TSLP antibodies in normal mice (Control) or AR mice. TSLP protein expression levels were higher in AR mice and AR-GFP mice.

Induction Validation of TSLP in Rat VSMCs (Zhao et al., 2012) Immunohistochemical images showing the TSLP protein detected by anti-TSLP antibodies in Rat VSMCs without (Control) or with treatment with TNF-alpha, Ang II, Ang II+PDTC, Ang II+valsartan. TNF-alpha treatment is used as a positive control. The production of TSLP was increased after Ang II treatment.



Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Thymic stromal lymphopietin TSLP Antibody

For Research Use Only. Not for use in diagnostic procedures.