

TSLP Antibody

Catalog # ASC10492

Product Information

Application WB, E, IHC-P **Primary Accession Q969D9**

NP_149024, 14719428 Other Accession

Reactivity Human Host Rabbit Clonality **Polyclonal** Isotype IgG **Calculated MW** 18141 Concentration (mg/ml) 1 mg/mL Conjugate Unconjugated

TSLP antibody can be used for detection of TSLP by Western blot at 1 - 2 **Application Notes**

> Ig/mL. Despite its predicted molecular weight, TSLP often migrates at a higher molecular weight in SDS-PAGE. Antibody can also be used for

immunohistochemistry starting at 2.5 [g/mL.

Additional Information

Gene ID 85480

Other Names TSLP Antibody: Thymic stromal lymphopoietin, thymic stromal lymphopoietin

Target/Specificity TSLP;

TSLP antibody can be stored at 4°C for three months and -20°C, stable for up **Reconstitution & Storage**

> to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

Precautions TSLP Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name **TSLP**

Function [Isoform 1]: Cytokine that induces the release of T-cell- attracting

> chemokines from monocytes and, in particular, enhances the maturation of CD11c(+) dendritic cells. Can induce allergic inflammation by directly

activating mast cells.

Cellular Location Secreted.

Isoform 1 is expressed in a number of tissues including heart, liver and **Tissue Location**

prostate. Isoform 2 is the predominant form in keratinocytes of oral mucosa,

Background

TSLP Antibody: 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.

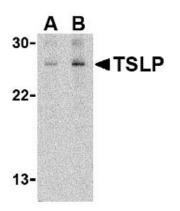
References

Ziegler SF and Liu Y-J. Thymic stromal lymphopoietin in normal and pathogenic T cell development and function. Nature Immunol. 2006; 7:709-14.

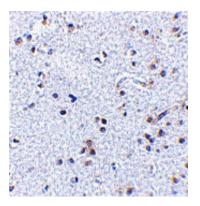
Sims JE, Williams DE, Morrissey PJ, et al. Molecular cloning and biological characterization of a novel murine lymphoid growth factor. J. Exp. Med. 2000; 192:671-80.

Levin SD, Koelling RM, Friend SL, et al. Thymic stromal lymphopoietin: a cytokine that promotes the development of IgM+ cells in vitro and signals via a novel mechanism. J. Immunol. 1999; 162:677-83. Quentmeier H, Drexler HG, Fleckenstein D, et al. Cloning of human thymic stromal lymphopoietin (TSLP) and signaling mechanisms leading to proliferation. Leukemia 2001; 15:1286-92.

Images



Western blot analysis of TSLP in Jurkat cell lysate with TSLP antibody at (A) 1 and (B) 2 μg/mL.



Immunohistochemistry of TSLP in human brain tissue with TSLP antibody at 2.5 μ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.