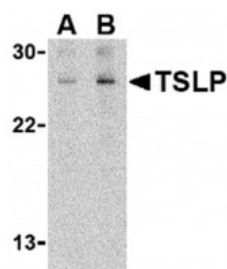


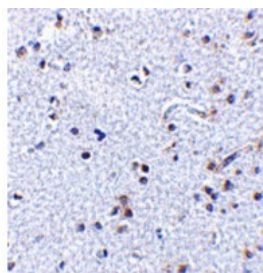


TSLP Antibody

CATALOG NUMBER: 4021



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



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

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	ELISA, IHC-P, WB
APPLICATIONS:	TSLP antibody can be used for detection of TSLP by Western blot at 1 - 2 ug/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 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1205 - Jurkat Cell Lysate 2) Cat. No. 1303 - Human Brain Tissue Lysate
IMMUNOGEN:	TSLP antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human TSLP. The immunogen is located within the last 50 amino acids of TSLP.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	TSLP Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	TSLP Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	TSLP antibody can be stored at 4°C for three months and -20°C, stable for up 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.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	TSLP Antibody: Thymic stromal lymphopoietin
ACCESSION NO.:	NP_149024
PROTEIN GI NO.:	14719428
OFFICIAL SYMBOL:	TSLP
GENE ID:	85480

Background

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:

- 1) Ziegler SF and Liu Y-J. Thymic stromal lymphopoietin in normal and pathogenic T cell development and function. *Nature Immunol.* 2006; 7:709-14.
- 2) 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.
- 3) 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.
- 4) 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.

FOR RESEARCH USE ONLY

December 12, 2016