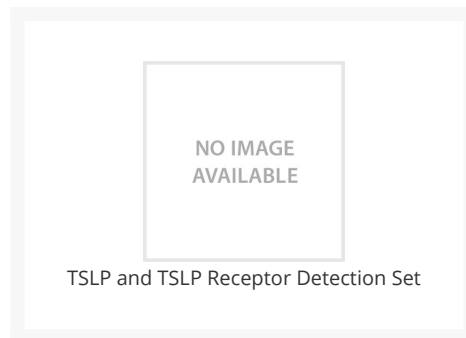




TSLP and TSLP Receptor Detection Set

Cat. No.: PSI-1822



Ψ Specifications

SPECIES REACTIVITY:	Human
IMMUNOGEN:	Rabbit polyclonal antibodies were raised against peptides corresponding to amino acid sequences from each of the corresponding proteins.
TESTED APPLICATIONS:	IF, IHC, WB
APPLICATIONS:	These polyclonal antibodies can be used for detection of TSLP and TSLP-R by immunoblot at 0.5 - 2 µg/mL, and by immunohistochemistry at 2.5 - 10 µg/mL, and Immunofluorescence.
POSITIVE CONTROL:	1) TSLP Antibody (CT): Jurkat Cell Lysate, Catalog No. 1223 TSLP Antibody: A-20 Cell Lysate, Catalog No. 1288 TSLP-R Antibody: Human Liver Lysate, Cat. No. 1304 TSLP-R Antibody (IN): Mouse Heart Lysate, Cat. No. 1401

Ψ Properties

PURIFICATION:	Antibodies are supplied as affinity chromatography purified IgG.
PHYSICAL STATE:	Liquid
BUFFER:	PBS containing 0.02% sodium azide.

CONCENTRATION:	Antibody 1 mg/mL
STORAGE CONDITIONS:	Stable at 4 °C for three months, store at -20 °C for up to one year.

Ψ Additional Info

USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
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Ψ Background and References

BACKGROUND:	<p>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. The TSLP receptor (TSLP-R) will bind TSLP in a low-affinity fashion in transfected cells; co-transfection with IL-7R cDNA results in high-affinity binding and a functional heteromeric complex. This heteromeric receptor requires stat5 for TSLP-mediated signal transduction and is inhibited by SOCS1. Despite their predicted molecular weight, TSLP and TSLP-R often migrate at a higher molecular weight in SDS-PAGE. Antibody #4209 recognizes only mouse protein; #4025 recognizes both mouse and rat proteins. Antibodies #4021 and #4207 are specific for human proteins.</p> <p>For images please see PDF data sheet</p>
REFERENCES:	<p>1) Ziegler SF and Liu Y-J. Thymic stromal lymphopoietin in normal and pathogenic T cell development and function. <i>Nature Immunol.</i> 2006; 7:709-14.</p> <p>2) Sims JE, Williams DE, Morrissey PJ, et al. Molecular cloning and biological characterization of a novel murine lymphoid growth factor. <i>J. Exp. Med.</i> 2000; 192:671-80.</p> <p>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. <i>J. Immunol.</i> 1999; 162:677-83.</p> <p>4) Quentmeier H, Drexler HG, Fleckenstein D, et al. Cloning of human thymic stromal lymphopoietin (TSLP) and signaling mechanisms leading to proliferation. <i>Leukemia</i> 2001; 15:1286-92.</p>

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