

# Mouse Anti-TSLP Monoclonal Antibody

**Cat. No.** DMABT-H19273    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Mouse Anti-TSLP Monoclonal Antibody

**Species**                      Human

**Source**                        Mouse

**Antigen Description**

Thymic Stromal Lymphopoietin (TSLP) is a hemopoietic protein that is expressed in the heart, liver and prostate. TSLP overlaps biological activities with IL-7 and binds with the heterodimeric receptor complex consisting of the IL-7R alpha chain (IL-7Ralpha) and the TSLP-specific chain (TSLPR). Like IL-7, TSLP induces phosphorylation of STAT3 and STAT5, but uses kinases other than the JAKs for activation. TSLP prohibited apoptosis and stimulated growth of the human acute myeloid leukemia (AML)-derived cell line MUTZ3. It induces the release of T cell-attracting chemokines TARC and MDC from monocytes and activates CD11c(+) dendritic cells (DCs). TSLP activated DCs primed na?ve T cells to produce the proallergic cytokines (IL-4, IL-5, IL-13, TNFalpha) while down-regulating IL-10 and IFN-gamma suggesting a role in initiating allergic inflammation. Recent studies revealed that expression of TSLP has a direct link to the pathogenesis of allergic inflammation such as atopic dermatitis and asthma via activating dendritic cells and mast cells which trigger inflammatory Th2 response characterized by high TNF-alpha and little IL-10 production.

**Target**                        TSLP

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<b>Isotype</b>	IgG1, kappa
<b>species</b>	Human
<b>Clone</b>	26C22.4
<b>Conjugation</b>	LEAF
<b>Applications</b>	Neut,ELISA
<b>Preparation</b>	The LEAF (Low Endotoxin, Azide-Free) antibody was Purified by affinity chromatography.
<b>Usage recommendation</b>	Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.5-2 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of TSLP recombinant protein ranging from 200 to 3.1 ng/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	The antibody solution should be stored undiluted at 4 °C. This LEAF solution contains no preservative; handle under aseptic conditions.
<b>Size</b>	50 µg;500 µg
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TSLP thymic stromal lymphopoietin [ Homo sapiens ]
<b>Official Symbol</b>	TSLP

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<b>Synonyms</b>	TSLP; thymic stromal lymphopoietin;
<b>Gene ID</b>	<a href="#">85480</a>
<b>mRNA Refseq</b>	<a href="#">NM_033035</a>
<b>Protein Refseq</b>	<a href="#">NP_149024</a>
<b>MIM</b>	<a href="#">607003</a>
<b>UniProt ID</b>	<a href="#">Q969D9</a>
<b>Chromosome Location</b>	5q22.1
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
<b>Function</b>	cytokine activity;

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