

## Mouse Anti-TSLP Monoclonal Antibody

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

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Mouse Anti-TSLP Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Antigen Description</b> | <p>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.</p> |
| <b>Target</b>              | 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                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                    |
|------------------------|----------------------------------------------------|
| <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;                                                                                                                                                                                                                          |