

**Datasheet for 600-401-H30****TSLP Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-TSLP (RABBIT) Antibody - 600-401-H30 |
| <b>Item No.:</b>     | 600-401-H30                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                        |
| <b>Reactivity:</b>   | Human, Mouse                              |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | TSLP antibody detects human TSLP. 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. Anti-TSLP antibodies are ideal for investigators involved in neuroscience research. |
| <b>Synonyms:</b>     | Thymic stromal lymphopoietin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                        |                    |
|------------------------|--------------------|
| <b>Gene Name:</b>      | TSLP               |
| <b>Reactivity:</b>     | Human, Mouse       |
| <b>Immunogen Type:</b> | Conjugated Peptide |

|                            |                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | TSLP Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to an internal region of human TSLP.                                                                                                                                                               |
| <b>Purity/Specificity:</b> | Anti-TSLP Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with TSLP with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with TSLP from other sources has not been determined. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - NP_149024</a></li><li>• <a href="#">UniProtKB - Q969D9</a></li><li>• <a href="#">GeneID - 85480</a></li></ul>                                                                                                                                              |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, IF, IHC, WB                                                                                                                                                                                                                                                                                                                 |
| <b>Application Note:</b>    | Anti-TSLP Antibody is tested for use in E, WB, IF, and IHC. Expect a band approximately ~18.1 kDa on specific lysates. Western Blot, Immunohistochemistry, and Immunofluorescence tested in human and mouse samples; Immunocytochemistry in human samples. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                    |
| <b>IF:</b>                  | 20µg/mL                                                                                                                                                                                                                                                                                                                            |
| <b>IHC:</b>                 | 1-2.5µg/mL                                                                                                                                                                                                                                                                                                                         |
| <b>WB:</b>                  | 0.25-4µg/mL                                                                                                                                                                                                                                                                                                                        |

## Formulation

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                         |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | None                                                       |

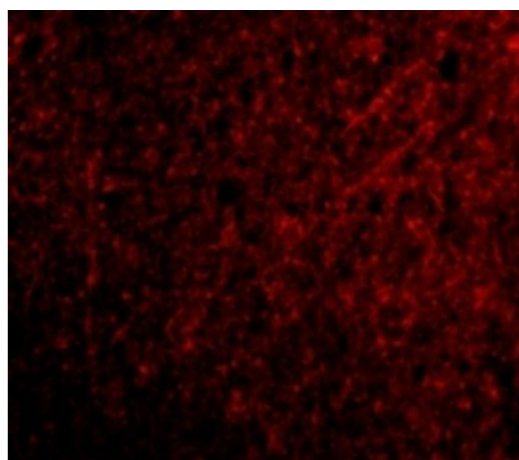
## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Wet Ice |
|----------------------------|---------|

**Storage Condition:** Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Immunofluorescence Microscopy

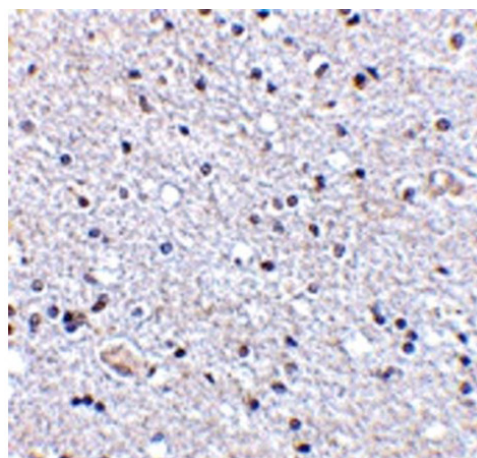
Immunofluorescence of TSLP.

Tissue: Human Brain Tissue.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: Anti-TSLP at 20 µg/mL.

Secondary Antibody: goat anti-rabbit IgG secondary antibody at 1:500 dilution (red).



### Immunohistochemistry

Immunohistochemistry of TSLP.

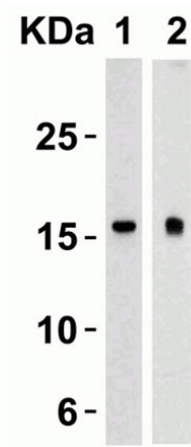
Tissue: Human Brain Tissue.

Fixation: paraffin-embedded, formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval was by heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-TSLP antibody at 2.5 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



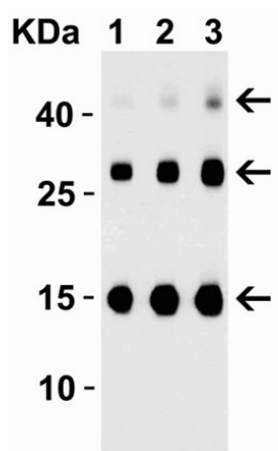
#### Western Blot

Western Blot of TSLP.

Load: 15  $\mu$ g of lysates per lane Human Heart (Lane 1) and Human Prostate (Lane 2).

Primary antibody: Anti-TSLP at 4  $\mu$ g/mL for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



#### Western Blot

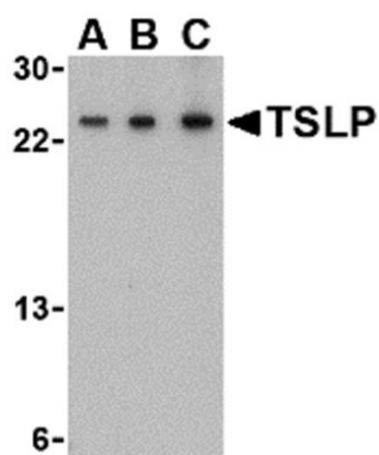
Western Blot of TSLP.

Load: 30ng of TSLP partial human recombinant protein per lane.

Primary antibody: Anti-TSLP at (Lane 1: 0.25  $\mu$ g/mL, Lane 2: 0.5  $\mu$ g/mL, Lane 3: 1  $\mu$ g/mL) for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Observed MW: TSLP partial human recombinant protein 15kD, the observed bands at 30kD and 45kD are the dimer and trimer, respectively.



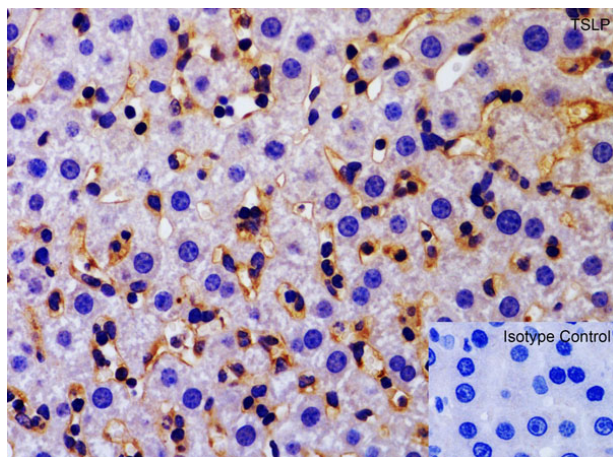
#### Western Blot

Western Blot of TSLP.

Load: 15  $\mu$ g of Mouse A-20 Cell Line lysates per lane.

Primary antibody: Anti-TSLP at (A: 0.5  $\mu$ g/mL, B: 1  $\mu$ g/mL, C: 2  $\mu$ g/mL) for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



### Immunohistochemistry

Immunohistochemistry of TSLP.

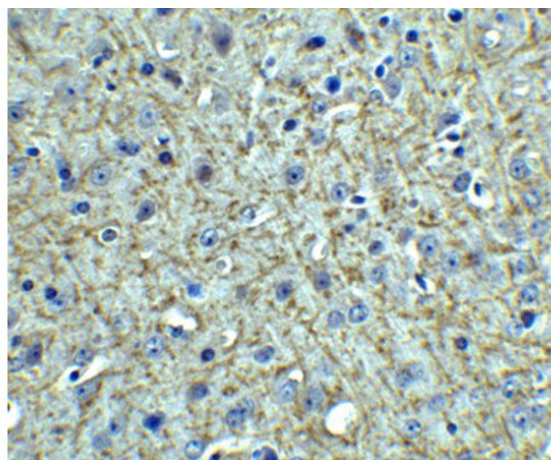
Tissue: Human Brain Tissue.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-TSLP antibody at 2.5 µg/mL overnight at 4°C

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



### Immunohistochemistry

Immunohistochemistry of TSLP.

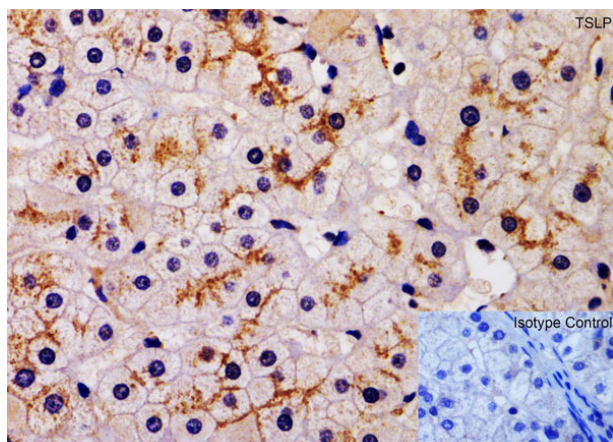
Tissue: Human Liver Tissue.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-TSLP antibody at 2 µg/mL overnight at 4°C

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



### Immunohistochemistry

Immunohistochemistry of TSLP.

Tissue: Mouse Liver Tissue.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-TSLP antibody at 2 µg/mL overnight at 4°C

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.

## Disclaimer

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