SANTA CRUZ BIOTECHNOLOGY, INC.

TSLP (LX-9): sc-80410

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Thymic stromal lymphopoietin (TSLP) is a novel member of the hemopoietic cytokine family that promotes the development of B cells and shares overlapping activity with IL-7. The gene encoding murine TSLP maps to chromosome 18 and its human homologue is expressed in several tissues, including heart, liver and prostate. TSLP mediates its function by binding to a receptor complex. TSLP first binds with low affinity to a TSLP-specific chain designated TSLPR, and then forms a high affinity complex with the IL-7Rα subunit, which explains the overlapping biological properties between TSLP and IL-7. Both TSLP and IL-7 induce phosphorylation of the transcription factor Stat5, but unlike IL-7, TSLP-mediated signaling does not activate the JAKs. TSLP prevents apoptosis and stimulates the proliferation of myeloid cells, which is supported by the coexpression of TSLPR and IL-7Rα on monocytes and dendritic cells.

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CHROMOSOMAL LOCATION

Genetic locus: Tslp (mouse) mapping to 18 B1.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

TSLP (LX-9) is a rat monoclonal antibody raised against full length recombinant TSLP of mouse origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TSLP (LX-9) is recommended for detection of TSLP of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TSLP siRNA (m): sc-39821, TSLP shRNA Plasmid (m): sc-39821-SH and TSLP shRNA (m) Lentiviral Particles: sc-39821-V.

Molecular Weight of TSLP: 16 kDa.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.