Species Reactivity: Mouse
Specificity: Detects mouse TSLP R in direct ELISAs and Western blots.
Source: Polyclonal Goat IgG
Purification: Antigen Affinity-purified
Immunogen: Mouse myeloma cell line NS0-derived recombinant mouse TSLP R
A1a20-Leu233
Accession #: BAA92159
Conjugate: Phycoerythrin
Excitation Wavelength: 488 nm
Emission Wavelength: 565-605 nm
Formulation: Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Recommended Concentration
Sample
Flow Cytometry 10 µL/10^6 cells See Below

DATA

Flow Cytometry

Detection of TSLP R in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Goat Anti-Mouse TSLP R PE-conjugated Antigen Affinity-purified Polyclonal Goat IgG (Catalog # FAB5461P, filled histogram) or isotype control antibody (Catalog # IC108P, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping: The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage: Protect from light. Do not freeze.

- 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TSLP R, also named Delta (1) and CRLM-2 (2) (cytokine receptor-like module-2), was originally cloned as a novel type 1 cytokine receptor with similarity to the common gamma chain. It was subsequently identified to be a subunit of the cellular receptor for the IL7-like cytokine TSLP and termed TSLP R (3). The TSLP R cDNA encodes a 359 amino acid (aa) residue type 1 membrane protein with a 24 aa residue signal peptide, a 206 aa residue extracellular domain that showed 24% sequence identity with the mouse common γ receptor, a 23 aa residue transmembrane domain, and a 106 aa residue cytoplasmic domain. The cytoplasmic domain of TSLP R contains a membrane-proximal box1 motif which is known to be important for association with JAKs. An alternatively spliced mRNA variant encoding a soluble TSLP R has also been reported (2). TSLP R expression is ubiquitous in the immune and hematopoietic cells, but is up-regulated in Th2-skewed cells. Cells expressing TSLP R alone bind TSLP with low affinity. Co-expression of TSLP R and IL-7 Rα is required for high-affinity TSLP binding and signal transduction (3, 4).

References: