biotechne

Human TSLPR Antibody

Monoclonal Mouse IgG₁ Clone # 147036 Catalog Number: MAB981

ROSYSTEMS

| DESCRIPTION | |
|--------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human TSLPR in direct ELISAs and Western blots. Does not cross-react with recombinant mouse TSLPR. |
| Source | Monoclonal Mouse IgG ₁ Clone # 147036 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human TSLPR Gly25-Lys231 Accession # Q9HC73 |
| Formulation | Lvophilized from a 0.2 um filtered solution in PBS with Trehalose. |

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 |
|----------------|--|---|
| Western Blot | 1 μg/mL | Recombinant Human TSLPR Fc Chimera (Catalog # 981-TR) |
| Flow Cytometry | 0.25 µg/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |



| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
|---------------------|--|
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |
| | 12 months from date of receipt, -20 to -70 °C as supplied. |
| | 1 month, 2 to 8 °C under sterile conditions after reconstitution. |
| | 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

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BACKGROUND

RDsystems

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 IL-7-like cytokine TSLP and termed TSLP R (3). The human TSLP R cDNA encodes a 371 amino acid (aa) residue type 1 membrane protein with a 22 aa residue signal peptide, a 210 aa residue extracellular domain, a 20 aa residue transmembrane domain, and a 119 aa residue cytoplasmic domain (4, 5). The extracellular region contains two fibronectin type III-like domains and a WSXWS-like motif. The cytoplasmic domain contains a membrane-proximal box 1 motif that is known to be important for association with JAKs (4). Human TSLP R displays 39% identity to mouse TSLP R and 24% identity to the common gamma receptor (4). An alternatively spliced mRNA variant encoding a soluble TSLP R has also been reported in mouse (2). TSLP R expression is ubiquitous in the immune and hematopoietic cells, but is up-regulated in Th2-skewed cells. Cells expressing TSLP R and IL-7 Rα is required for high-affinity TSLP has been shown to induce the release of T cell-attracting chemokines from monocytes and enhance the maturation of CD11c⁺ dendritic cells (5).

References:

- 1. Fujio, K. et al. (2000) Blood 95:2204.
- 2. Hiroyama, T. et al. (2000) Biochem. Biophys. Res. Commun. 272:224.
- 3. Park, L.S. *et al*. (2000) J. Exp. Med. **192**:659.
- 4. Tonozuka, Y. et al. (2001) Cytogenet. Cell Genet. 93:23.
- 5. Reche, P.A. et al. (2001) J. Immunol. 167:336.
- 6. Pandey, A. et al. (2000) Nat. Immunol. 1:59.

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