



Sheep anti Human TSLP polyclonal antibody [Biotin] (CABT-L248)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects human TSLP in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant mouse (rm) TSLP and recombinant human TSLP R is observed.
Target	TSLP
Immunogen	E. coli-derived recombinant human TSLP, Tyr29-Gln159, Accession #Q969D9
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	ELISA(Det), WB
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Format	Lyophilized
Size	50 µg
Buffer	PBS with BSA
Preservative	None
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.

Ship The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

BACKGROUND

Introduction

Thymic Stromal Lymphopoietin (TSLP) was originally identified as an activity from the conditioned medium of a mouse thymic stromal cell line that promoted the development of B cells. The activities of mouse TSLP overlap with, but are distinct from, those of mouse IL-7. Both mouse TSLP and IL-7 can co-stimulate growth of thymocytes and mature T cells, and support B lymphopoiesis in long-term cultures of fetal liver cells and bone-marrow cells. Whereas mouse IL-7 facilitates the development of B220+/IgM-pre-B cells, mouse TSLP promotes the development B220+/IgM+ B cells. Human TSLP was reported to preferentially stimulate myeloid cells; inducing the release of T cell-attracting chemokines from monocytes and enhancing the maturation of CD11c+ dendritic cells. Human TSLP cDNA encodes a 159 amino acid (aa) residue precursor protein with a 28 aa signal sequence. Within the mature region, six of the seven cysteine residues present in the mouse TSLP involved in intramolecular disulfide bond formation are conserved in the human TSLP. Human TSLP shares approximately 43% aa sequence identity with mouse TSLP. By Northern blot analysis, human TSLP expression has been detected in many tissues with the highest expressions in heart, liver, testis and prostate. TSLP signals through a heterodimeric receptor complex that consists of IL-7 R alpha and the TSLP R, a member of the hemopoietin receptor family most closely related to R gamma c.

Keywords thymic stromal lymphopoietin;TSLP

GENE INFORMATION

Entrez Gene ID [85480](#)

UniProt ID [A0A0C4DG43](#)
