

🕜 Tel: +1-301-363-4651 🛛 🖂 Email: cusabio@cusabio.com 🛛 🕑 Website: www.cusabio.com 🧉

TSLP Recombinant Monoclonal Antibody

Product Code	CSB-RA025141A1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q969D9
Immunogen	Recombinant Human TSLP protein
Species Reactivity	Human
Tested Applications	ELISA
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
lsotype	hlgG2
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	TSLP
Clone No.	7G4

Description

To produce the TSLP recombinant monoclonal antibody, a complex process is followed that involves several stages. Firstly, the TSLP monoclonal antibody is obtained and its gene sequence is determined. Next, a vector containing the TSLP monoclonal antibody gene is constructed and transfected into a host cell line for culturing. To synthesize the TSLP monoclonal antibody, a recombinant human TSLP protein is used as an immunogen. The resulting TSLP recombinant monoclonal antibody is then purified via affinity chromatography and evaluated for specificity using ELISA. It only reacts with human TSLP protein.

TSLP is a cytokine produced by epithelial cells, including those in the skin, lung, and intestine. It functions as a key regulator of innate and adaptive immune responses. TSLP is involved in promoting allergic inflammation, regulating immune tolerance, and maintaining homeostasis in epithelial tissues. TSLP stimulates dendritic cells to differentiate into a subtype that produces a type 2 cytokine profile. This results in the activation of CD4+ T cells, particularly T helper 2 (Th2) cells, which produce cytokines such as IL-4, IL-5, and IL-13, promoting the differentiation of B cells into plasma cells that secrete IgE. TSLP also promotes the differentiation of regulatory T cells (Tregs), which can

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suppress immune responses.