

Recombinant Mouse IL1RL1/ST2 Protein

Catalog No.: RP01673

Sequence Information

Species	Gene ID
Mouse	17082
Swiss Prot	Tags
P14719	C-hFC-6His

Synonyms

T1; St2; DER4; Ly84; ST2L; Fit-1; T1 /ST2; St2-rs1; IL1RL1

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW Observed MW

61.05 kDa 75-100 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

IL-1 receptor-like 1 (IL1RL1) is a membrane receptor involved in TH2 inflammatory responses and eosinophilia. It has previously been described that levels of the interleukin-1 like 1 (IL1RL1) protein can be used to diagnose cardiovascular disease and determine the prognosis for a patient with cardiovascular disease. The ligand for IL1RL1 has been described and named IL-33. Mutants in IL1RL1 have been associated with blood eosinophil counts in a genome-wide association study and with asthma in family-based and case-control studies. As an important mediator involved in many immune and inflammatory responses, this cytokine has been implicated as a regulator of both the development and effector phases of type 2 helper T cell responses, and as a negative feedback modulator of macrophage proinflammatory function. IL33 is a specific ligand of ST2L and induces the production of Th2 cytokines.

Basic Information

Description

Recombinant Mouse IL1RL1/ST2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser27-Ala332) fused with hFC-6His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized mouse IL-33 (Catalog: RP01802) at 10 μg/mL (100 μL/well) can bind mouse IL1RL1 (Catalog: RP01673) with a linear range of 19.5-1197.7 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

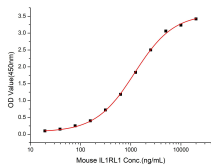
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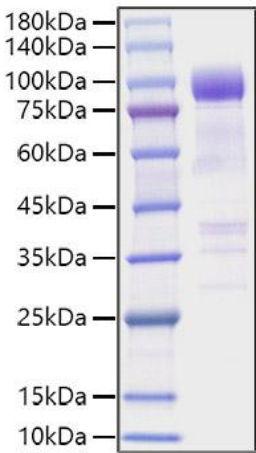
✉ | cn.market@abclonal.com.cn

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Validation Data



Immobilized mouse IL-33 (Catalog: RP01802) at 10 µg/mL (100 µL/well) can bind mouse IL1RL1 (Catalog: RP01673) with a linear range of 19.5–1197.7 ng/mL.



Recombinant Mouse IL1RL1/ST2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.