



Polyclonal Antibody against Mouse Interleukin-33 (IL-33)

Catalog Number: 12750

Size: 100 µg

Host: Rabbit

Introduction to the Molecule

IL-33 was identified based on sequence and structural homology with IL-1 family cytokines. The N-terminal portion of full length IL-33 contains a predicted bipartite nuclear localization sequence and a homeodomain-like helix-turn-helix DNA binding domain. The C-terminal fragment, corresponding to mature IL-33, binds and triggers signaling through mast cell IL-1 R4/ST2L, a longtime orphan receptor involved in the augmentation of Th2 cell responses. A ternary signaling complex is formed by the subsequent association of IL-33 and ST2L with IL-1R AcP. Stimulation of Th2 polarized lymphocytes with mature IL-33 *in vitro* induces IL-5 and IL-13 secretion. *In vivo* administration of mature IL-33 promotes increased production of IL-5, IL-13, IgE, and IgA, as well as splenomegaly and inflammatory infiltration of mucosal tissues.

Purification

Antigen affinity-purified

Immunogen

Recombinant mouse IL-33 (Cat. No.: 41750) in *E.coli*.

Specificity:

The antibody detects mouse IL-33 in ELISA.

Formulation & Storage

Liquid in phosphate-buffered saline (PBS). Store at -20°C for less than one week. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

Application/Usage

ELISA - This antibody can be used as capture antibody in Mouse IL-33 ELISA (Cat. No.: 31750).

Quality Control Test

BCA to determine quantity of the antibody.