

## Polyclonal Antibody against Mouse Interleukin-33

Catalog Number: 12750

Size: 100 ug

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.

### Isotype/Preparation:

Rabbit specific IgG was purified by IL-33 affinity chromatography

### Immunogen:

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

### Specificity:

The antibody detects mouse IL-33.

### Formulation:

Solution in PBS. Store at  $-20^{\circ}\text{C}$ . For long-term storage, aliquot and freeze at  $-70^{\circ}\text{C}$ . 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

### Contact Us

- Website: [www.torontobioscience.com](http://www.torontobioscience.com)
- E-mail: [sales@torontobioscience.com](mailto:sales@torontobioscience.com)
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