

## Recombinant Rat Interleukin 33

**Cat. No.** IL33-286R    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant rat IL-33 (aa 109-264) was expressed in E. coli, ~16kDa.                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>           | Rat                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>     | 109-264 a.a.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>       | IL-33 is a new member of the IL-1 family. It is involved in T helper type 2 response via the activation of its receptor ST2 (IL-1RL1) driving the production of Th2-associated cytokines. The stimulation of ST2 by IL-33 induces the NF-κB and MAPK pathways. The human IL-33 protein is expressed with a prodomain (aa 1-111) which is cleaved by caspase-1 to produce the 18kDa mature protein (112-270). |
| <b>Purity</b>            | ≥95% (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>     | 0.1mg/ml after reconstitution.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Formulation</b>       | Lyophilized. Contains PBS.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin Content</b> | <0.1EU/g purified protein (LAL test; Bio Whittaker).                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reconstitution</b>    | Reconstitute with 100μl sterile distilled water. Further dilutions should be made with medium containing 5% fetal calf serum.                                                                                                                                                                                                                                                                                |

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**Long Term Storage** -20°C.

**Use/Stability** Stable for at least 6 months after receipt when stored at -20°C.

**Handling** After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** IL33 interleukin 33 [ *Rattus norvegicus* ]

**Synonyms** interleukin 33; RGD1311155; IL33; interleukin-33; IL-33

**Gene ID** 361749

**mRNA Refseq** NM\_001014166

**Protein Refseq** NP\_001014188

**UniProt ID** Q66H70

**Chromosome Location** 1q52

**Pathway** Cytosolic DNA-sensing pathway

**Function** cytokine activity; protein binding

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