# Recombinant Rat Interleukin 33

**Cat. No.** Il33-286R **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant rat IL-33 (aa 109-264) was expressed in E. coli, ~16kDa. |
| **Species** | Rat |
| **Source** | E.coli |
| **ProteinLength** | 109-264 a.a. |
| **Description** | 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). |
| **Purity** | ≥95% (SDS-PAGE). |
| **Concentration** | 0.1mg/ml after reconstitution. |
| **Formulation** | Lyophilized. Contains PBS. |
| **Endotoxin Content** | <0.1EU/μg purified protein (LAL test; Bio Whittaker). |
| **Reconstitution** | Reconstitute with 100μsterile 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

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| **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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