

Recombinant Protein Technical Manual

Recombinant Mouse Interleukin-33/IL-33 Protein (Active)

RPES1903

Product Data:

Product SKU: RPES1903 **Size:** 10μg

Species: Mouse Expression host: E. coli

Uniprot: Q8BVZ5

Protein Information:

Molecular Mass: 17.6 kDa

AP Molecular Mass: 18 kDa

Tag:

Bio-activity: Immobilized Mouse IL-33 at 10μg/ml(100 μl/well) can bind Mouse ST2-Fc(Cat:

PKSM041051). The ED50 of Mouse IL-33 is 1-5 ug/ml.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per μg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 μm filtered solution of 20mM PB,150mM NaCl,pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: Interleukin 33; IL-33; IL33; C9orf26; NKHEV; Interleukin family member 11; DVS27;

NF-HEV and IL- 1F11

Immunogen Information:

Sequence: Ser109-Ile266

Background:

Mouse Interleukin 33 (IL-33) is a 30 kDa proinflammatory cytokine which may also regulates gene transcription in producer cells. IL-33 is constitutively expressed in smooth muscle and airway epithelia. IL-33 was identified based on sequence and structural homology with IL family cytokines. It is up-regulated in arterial smooth muscle, dermal fibroblasts, and keratinocytes following IL alpha or IL beta stimulation. IL-33 is structurally related to IL, which induces helper T cells to produce type 2 cytokines and acts through the receptor IL1RL. BindingIL-33 to this receptor activates NF-kappa-B and MAP kinases and induces in vitro Th2 cells to produce cytokines. In vivo, IL-33 induces the expression of IL-4, IL-5, IL3 and also leads to severe pathological changes in mucosal organs.