



## Recombinant Protein Technical Manual

**Recombinant Rhesus macaque IL-33/Interleukin-33  
Protein (His Tag)**  
RPES3749

### Product Data:

**Product SKU:** RPES3749

**Size:** 10µg

**Species:** Rhesus macaque

**Expression host:** E. coli

**Uniprot:** F7DLG4

### Protein Information:

**Molecular Mass:** 20.3 kDa

**AP Molecular Mass:** 21 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 PBS, pH7.4.

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

**Application:**

**Synonyms:** Interleukin-33; IL-33; Interleukin Family Member 11; ILF11; Nuclear Factor From High Endothelial Venues; NF-HEV; IL33; C9orf26; IL1F11; NFHEV

## Immunogen Information:

**Sequence:** Ser112-Ile270

## Background:

Interleukin-33 (IL-33) belongs to the IL superfamily. IL33 is highly expressed in endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes, but almost undetectable in placenta. IL33 induces the production of T helper-2 (Th2)-associated cytokines. IL-33 is a cytokine that mediates its biological effects by binding to and signals through IL1RL1/ST2 and IL Receptor Accessory Protein (IL1RAP), activating intracellular molecules in the NF- $\kappa$ B and MAP kinase signaling pathways that drive production of type 2 cytokines from polarized Th2 cells.