



## Recombinant Protein Technical Manual

**Recombinant Human ILR8/IL1RAPL1 Protein (aa 19-357, His Tag)**  
RPES1811

### Product Data:

**Product SKU:** RPES1811

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9NZN1

### Protein Information:

**Molecular Mass:** 40 kDa

**AP Molecular Mass:** 50-70 kDa

**Tag:** C-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, pH 7.4.

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

**Application:**

**Synonyms:** Interleukin Receptor Accessory Protein-Like 1; IL-RAPL; ILRAPL; IL1RAPL; Oligophrenin-4; Three Immunoglobulin Domain-Containing IL Receptor-Related 2; TIGIRR-2; X-Linked Interleukin Receptor Accessory Protein-Like 1; IL1RAPL1; OPHN4

## Immunogen Information:

**Sequence:** Leu19-Thr357

## Background:

Interleukin receptor accessory protein-like 1, also known as IL1RAPL1, can be detected at low levels in heart, skeletal muscle, ovary, skin, amygdala, caudate nucleus, corpus callosum, hippocampus, substantia nigra and thalamus. IL1RAPL1 functions as a homodimer, it interacts with NCS1, PTPRD. This interaction is PTPRD-splicing-dependent and induces pre- and post-synaptic differentiation of neurons and is required for IL1RAPL1-mediated synapse formation. During dendritic spine formation, it can bidirectionally induce pre- and post-synaptic differentiation of neurons by trans-synaptically binding to PTPRD.