



# Recombinant Protein Technical Manual

## Recombinant Human IL-20RA/IL-20R1 Protein (His Tag)

RPES3601

### Product Data:

**Product SKU:** RPES3601

**Size:** 50µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_055247.21

### Protein Information:

**Molecular Mass:** 26.8 kDa

**AP Molecular Mass:** 40-45 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 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 sterile PBS, pH 7.2

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

**Application:**

**Synonyms:** Interleukin-20 Receptor Subunit Alpha; IL-20 Receptor Subunit Alpha; IL-20R-Alpha; IL-20RA; Cytokine Receptor Class-II Member 8; Cytokine Receptor Family 2 Member 8; CRF2-8; IL-20R1; ZcytoR7; IL20RA

## Immunogen Information:

**Sequence:** Met 1-Lys 250

## Background:

Interleukin 20 receptor, alpha subunit (IL20RA/IL-20RA) also known as IL-20 receptor subunit alpha, Cytokine receptor class-II member 8, interleukin-20 receptor I, and interleukin-20 receptor subunit alpha, is a subunit for the interleukin-20 receptor. IL20RA/IL-20RA belongs to the type II cytokine receptor family. This cytokine is a receptor for interleukin 20 (IL20), a cytokine that may be involved in epidermal function. The receptor of IL20 is a heterodimeric receptor complex consisting of this protein and interleukin 20 receptor beta (IL20B). IL20RA forms heterodimer with IL20RB, and the complex serves as a receptor for IL19, IL20 and IL24. All three are capable of signaling through IL-20RA/IL-20RB complex. The ligand binding to receptor B creating a high-affinity binding site for the receptor A which is recruited to complete the complex. In addition, IL20RA also forms a heterodimer with the unique and specific receptor IL10RB and functions as the receptor for IL26. IL20RA is widely expressed with highest levels in skin, testis and brain. The expression of both IL20RA and IL20RB is found to be upregulated in psoriatic skin lesions on keratinocytes.