



# Recombinant Protein Technical Manual

## Recombinant Human UGRP1 Protein

RPES2378

### Product Data:

**Product SKU:** RPES2378

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q96PL1

### Protein Information:

**Molecular Mass:** 7.9 kDa

**AP Molecular Mass:** 7 kDa

**Tag:**

**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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

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

**Application:**

**Synonyms:** Secretoglobin Family 3A Member 2; Pneumo Secretory Protein 1; PnSP; Uteroglobin-Related Protein 1; SCGB3A2; PNSP1; UGRP1

## Immunogen Information:

**Sequence:** Phe22-Val93

## Background:

Uteroglobin-Related Protein 1 (UGRP1) belongs to the secretoglobin family which has been suggested to play a role in lung inflammation and allergic diseases. UGRP1 is a 17 kDa secreted homodimeric protein that shows amino acid sequence similarity with uteroglobin. UGRP1 is expressed predominantly in the lung and low levels of expression are detected in the thyroid. Expression of UGRP1 in lung epithelial cells is enhanced by IL0 and decreased through the activities of IL-9 and IL-5. UGRP1 interacts with the macrophage scavenger receptor with collagenous structure which is expressed by alveolar macrophages in the lung. It has been suggested that UGRP1 may be involved in inflammation and pathogen clearance in the lung by binding to its receptor.