



# Recombinant Protein Technical Manual

## Recombinant Human ATG3 Protein

RPES3124

### Product Data:

**Product SKU:** RPES3124

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9NT62

### Protein Information:

**Molecular Mass:** 36 kDa

**AP Molecular Mass:** 38 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:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 8.0.

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

**Application:**

**Synonyms:** Ubiquitin-like-conjugating enzyme ATG3; Autophagy-related protein 3; APG3-like; hApg3; Protein PC3-96; ATG3; APG3; APG3L

## Immunogen Information:

**Sequence:** Met 1-Met314

## Background:

Ubiquitin-like-conjugating enzyme ATG3 (ATG3), also known as Apg3L and Apg3p, functions as a regulatory component of autophagosome biogenesis necessary for autophagy. ATG3 exhibits 98% aa sequence identity with both its mouse and rat orthologs. It is widely expressed and has highly levels in heart, skeletal muscle, kidney, liver and placenta. As an E2-like enzyme, involves in autophagy and mitochondrial homeostasis. ATG3 catalyzes the conjugation of ATG8-like proteins to PE which is essential for autophagy. ATG3 also can catalyze the conjugation of ATG12 to itself which palys a role in mitochondrial homeostasis but not in autophagy.