



# Recombinant Protein Technical Manual

## Recombinant Mouse TNFR1/TNFRSF1A Protein

RPES5210

### Product Data:

**Product SKU:** RPES5210

**Size:** 10µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** NP\_035739.2

### Protein Information:

**Molecular Mass:** 21.2 kDa

**AP Molecular Mass:** 20-25 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95 % as determined by 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, pH7.4.

**Reconstitution:** Please refer to it for detailed information.

**Application:**

**Synonyms:** Tumor necrosis factor receptor superfamily member 1A; Tumor necrosis factor receptor 1; Tumor necrosis factor receptor type I; Tnfr; Tnfr1; Tnfrsf1a;

## Immunogen Information:

**Sequence:** Ile22-Ala212

## Background:

Tumor necrosis factor receptor superfamily member 1A (Tnfrsf1a) is a member of the tumor necrosis factor receptor superfamily. Tnfrsf1a is one of the major receptors for the tumor necrosis factor- $\alpha$ . It can activate the transcription factor NF- $\kappa$ B, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor. Germline mutations of the extracellular domains of this receptor were found to be associated with the human genetic disorder called tumor necrosis factor associated periodic syndrome (TRAPS) or periodic fever syndrome