



# Recombinant Protein Technical Manual

## Recombinant Mouse CD5L Protein (His Tag)

RPES0631

### Product Data:

**Product SKU:** RPES0631

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q9QWK4

### Protein Information:

**Molecular Mass:** 37.4 kDa

**AP Molecular Mass:** 52 kDa

**Tag:** C-6His

**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 PBS, pH7.4.

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

**Application:**

**Synonyms:** CD5 antigen-like; Apoptosis inhibitor expressed by macrophages; Apoptosis inhibitory 6; CT-2; SP-alpha; Cd5l; Aim; Api6; AAC1; AI047839; Api6; CT2; Pdp; Sp-alpha

## Immunogen Information:

**Sequence:** Glu22-Val352

## Background:

CD5L, also known as CD5 antigen-like, is a secreted protein which is mainly expressed by macrophages in lymphoid and inflamed tissues and regulates mechanisms in inflammatory responses, such as infection or atherosclerosis. It is able to inhibit lipid droplet size in adipocytes. CD5L acts as a key regulator of metabolic switch in T-helper Th17 cells. It participates in obesity-associated autoimmunity via its association with IgM, interfering with the binding of IgM to Fc $\alpha$ / $\mu$  receptor and enhancing the development of long-lived plasma cells that produce high-affinity IgG autoantibodies. It also acts as an inhibitor of apoptosis in macrophages: promotes macrophage survival from the apoptotic effects of oxidized lipids in case of atherosclerosis. It is involved in early response to microbial infection against various pathogens by acting as a pattern recognition receptor and by promoting autophagy.