



# Recombinant Protein Technical Manual

## Recombinant Mouse CLEC10A/CD301 Protein (Fc Tag)

RPES1882

### Product Data:

**Product SKU:** RPES1882

**Size:** 50µg

**Species:** Mouse

**Expression host:** HEK293 Cells

**Uniprot:** NP\_001191181.1

### Protein Information:

**Molecular Mass:** 56.7 kDa

**AP Molecular Mass:** 58 kDa

**Tag:** N-Fc

**Bio-activity:**

**Purity:** > 86 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein 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 7.4

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

**Application:**

**Synonyms:** CD301a;M-ASGP-BP;Mgl;Mgl1

## Immunogen Information:

**Sequence:** Gln 58-Ser 305

## Background:

CLEC10A, also known as the macrophage galactose-type calcium-type lectins (MGLs; CD301) constitute a unique class of C-type lectins because of their specificity for galactose and its structural homologues. MGLs/CD301 is a type II transmembrane glycoproteins and is expressed on macrophages and related cells of myeloid origins, particularly immature dendritic cells (DCs). There are 2 homologues: MGL1 and MGL2 (CD301a and CD301b) in mice. MGL1/CD301a induces both the production and secretion of interleukin (IL)0. MGL1/CD301a plays a protective role against colitis by effectively inducing IL0 production by colonic lamina propria macrophages in response to invading commensal bacteria.