



# Recombinant Protein Technical Manual

**Recombinant Mouse MGL2/CD301b Protein (His Tag)**  
RPES1142

## Product Data:

**Product SKU:** RPES1142

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q8JZN1

## Protein Information:

**Molecular Mass:** 30.9 kDa

**AP Molecular Mass:** 30-40 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, pH 7.4.

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

**Application:**

**Synonyms:** Mgl2;CD301b;Macrophage galactose N-acetyl-galactosamine-specific lectin 2;Macrophage Galactose-type C-lectin 2

## Immunogen Information:

**Sequence:** Ser72-Pro232

## Background:

Macrophage galactose N-acetyl-galactosamine-specific lectin 2(Mgl2), also known as CD301b, is a 38 kDa member that belongs to the C-type lectin family. Two MGL proteins are encoded by separate genes in the mouse, but share 91% amino acid (aa) identity in the extracellular domain (ECD). Only one MGL occurs in human and rat and this MGL is structurally more similar to mouse MGL1 than MGL2. However, human MGL and mouse MGL2 both bind specifically to terminal GalNAc residues, in contrast with mouse MGL1 which binds Lewis X. GalNAc recognition is likely to be important in dendritic cell-mediated tolerance to self-gangliosides as well as recognition of tumor antigens and parasite glycoproteins.