

## Recombinant Mouse MGL2/CD301b Protein (His Tag)

**Catalog Number:** PKSM041306

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

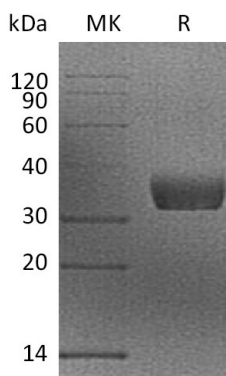
### Description

<b>Species</b>	Mouse
<b>Source</b>	HEK293 Cells-derived Mouse MGL2/CD301b protein Ser72-Pro332, with an N-terminal His
<b>Calculated MW</b>	30.9 kDa
<b>Observed MW</b>	30-40 kDa
<b>Accession</b>	Q8JZN1
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, 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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
	Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



### 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.

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