

## 32-7436: Recombinant Human LAMP1/CD107a (C-6His)

**Gene :** LAMP1  
**Gene ID :** 3916  
**Uniprot ID :** P11279

### Description

Source: Human Cells.  
MW :39.42kD.

Recombinant Human LAMP1 is produced by our Mammalian expression system and the target gene encoding Ala29-Met382 is expressed with a 6His tag at the C-terminus. Lysosome-Associated Membrane Glycoprotein 1 (LAMP1) is a single-pass type I membrane protein belonging to the LAMP family. LAMP1 is expressed largely in the endosome-lysosome membranes of cells. It shuttles between lysosomes, endosomes, and the plasma membrane. LAMP1 functions to present carbohydrate ligands to selectins and it has also been implicated in tumor cell metastasis. It has been proposed LAMP1 can be used as a therapeutic agent for certain cancers, as well as a marker for lysosomal storage disorders and degranulation on lymphocytes such as CD8+ and NK cells. Cell surface LAMP1 and LAMP2 have been shown to promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium, therefore they are possibly involved in the adhesion of PBMCs to the site of inflammation.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.  
**Storage condition :** 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.  
**Amino Acid :** AMFMVKNGNGTACIMANFSAAFSVNYDTKSGPKNMTFDLPSDATVVLNRSSCGKENTS DPSLVIAFGRGHTLT LNFTRNATRYSVQLMSFYVNLSDTHLFPNASSKEIKTVESITDIRADIDKKYRCVSGTQVHMNNVTVLHDATIQ AYLSNSSFSRGETRCEQDRPSPTTAPPAPSPSPVPKSPVDKYNVSGTNGTCLLASMGLQLNLTYERKDNT TVTRLLNINPNKTSASGSCGAHLVTLELHSEGTTVLLFQFGMNASSRFFLQGIQLNLTLPDARDPAFKAANGSL RALQATVGNYSYKCNAEEHVRVTKAFSVNIFKVWVQAFKVEGGQFGSVEECLLDENSMVDHHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.