

## 32-7437: Recombinant Human LAMP2/CD107b (C-6His)

**Gene :** LAMP2  
**Gene ID :** 3920  
**Uniprot ID :** P13473

### Description

Source: Human Cells.  
MW :33.94kD.

Recombinant Human LAMP2 is produced by our Mammalian expression system and the target gene encoding Leu29-Ile375 is expressed with a 6His tag at the C-terminus. Lysosomal Associated Membrane Protein 2 (LAMP2) is a major component of lysosomal membranes. LAMP2 is a transmembrane glycoprotein about 110kDa. Mature human LAMP2 consists of a 347 amino acid (aa) intraluminal domain, a 24 aa transmembrane segment, and a 35 aa cytoplasmic tail. The luminal domain is organized into two heavily N-glycosylated regions. Alternate splicing generates a human LAMP2 isoform (LAMP2B) with a substituted juxtamembrane luminal region, cytoplasmic tail and transmembrane segment. LAMP2 itself can cleavage lysosomal luminal domain and degradation lysosomal. In the help of chaperone HSC73, LAMP2 mediates the lysosomal uptake in complex with cargo proteins and is required for the lysosomal destruction of autophagic vacuoles.

### 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 :** LELNLTDSENATCLYAKWQMNFTVRYETTNTKTYKTVTISDHGTVTYNGSICGDDQNGPKIAVQFGPGFSWIANF  
TKAASTYSIDSVSFSYNTGDNTTFPDAEDKGILTVEDELLAIRIPLNDFRCNSLSTLEKNDVVQHYWDVLVQAFV  
QNGTVSTNEFLCDKDKTSTVAPTIHTTVPSPTTPTPKKEPEAGTYSVNNNGNDTCLLATMGLQLNITQDKVASVI  
NINPNTTHSTGSCRSHALLRLNSSTIKYLDVFVAVKNENRFYLKEVNISMVYLVNGSVFSIANNLSYWDAPLGS  
SYMCKEQTVSVSGAFQINTFDLRVQPFNVVTQGGKYSTAQECSLDDDTIVDHHHHHHH

### 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.