Recombinant Protein Technical Manual

Recombinant Human LAMP2/CD107b Protein (His Tag)(Active)

RPES3183

Product Data:

Product SKU: RPES3183

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P13473

Protein Information:

Molecular Mass:	33.9 kDa
AP Molecular Mass:	78 kDa
Tag:	C-6His
Bio-activity:	Immobilized Human LGALS3(Cat: PKSH032474) at 1.5µg/ml(100 µl/well) can bind Human LAMP2-His. The ED50 of Human LAMP2-His is 12.73 ug/ml .
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 20mM PB, 150mM NaCl, pH 7.2.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Lysosome-Associated Membrane Glycoprotein 2; LAMP-2; Lysosome-Associated Membrane Protein 2; CD107 Antigen-Like Family Member B; CD107b; LAMP2

Immunogen Information:

Sequence: Leu29-Ile375

Background:

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) intralumenal domain, a 24 aa transmembrane segment, and a 35 aa cytoplasmic tail . The lumenal domain is organized into two heavily N-glycosylated regions. Alternate splicing generates a human LAMP2 isoform (LAMP2B) with a substituted juxtamembrane lumenal region, cytoplasmic tail and transmenmbrane 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.