Recombinant Human LAMP-1/CD107a Protein

Catalog No.: RP01027

Sequence Information

Species
Human

Gene ID
3916

Swiss Prot
P11279-1

Tags
C-His

Synonyms
LAMP1, CD107a, LAMPA, LGP120, lysosomal associated membrane protein 1,CD107a,LAMPA,LGP120

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
39.23 kDa

Observed MW
60-80 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Lysosomal associated membrane protein 1 (LAMP1), also known as CD107a, is a single-pass type I membrane protein which belongs to the LAMP family. LAMP-1 is a glycoprotein highly expressed in lysosomal membranes.This glycoprotein provides selectins with carbohydrate ligands. It may also play a role in tumor cell metastasis. LAMP-1 acts as a receptor for Lassa virus protein. LAMP1 is presented on the plasma membrane during the activation of NK cells, CD8+ T cells, mast cells, basophils, monocytes, and platelets.

Basic Information

Description
Recombinant Human LAMP-1/CD107a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala29-Met382) of human LAMP1 (Accession #NP_005552.3) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human LAMP1 at 1 μg/mL (100 μL/well) can bind LAMP1 Rabbit pAb with a linear range of 1-8.5 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

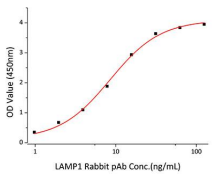
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

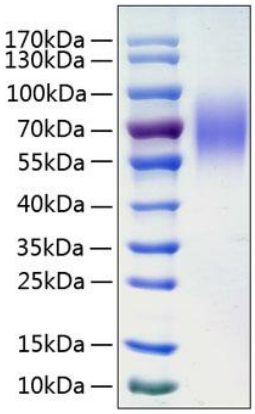
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Validation Data



Immobilized recombinant Human LAMP1 at 1μg/mL (100 μL/well) can bind LAMP1 Rabbit pAb with a linear range of 1-8.5ng/mL.



Recombinant Human LAMP-1/CD107a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.