

Recombinant Human LAMP-1/CD107a Protein

Catalog No.: RP01027 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3916 P11279-1

Tags

C-His

Synonyms

LAMP1; CD107a; LAMPA; LGP120; lysosomal associated membrane protein 1;CD107a;LAMPA;LGP120

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

39.23 kDa 60-80 kDa

Endotoxin

< 0.1 EU/ μ g 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.

Contact

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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 $6\times$ His tag at the C-terminus.

Bio-Activity

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

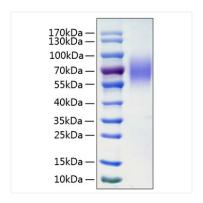
Avoid repeated freeze/thaw cycles.

Operational Notes

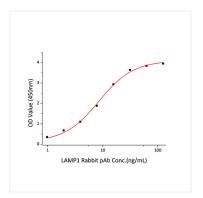
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



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



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