

Recombinant Human LIMP II/SCARB2/CD36L2 Protein

Catalog No.: RP00135 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	950	Q14108

Tags

C-His

Synonyms

AMRF; CD36L2; EPM4; HLGP85; LGP85; LIMP-2; LIMPII; SR-BII; SCARB2; CD36L2; EPM4; HLGP85; LGP85; LIMP-2; LIMPII; SR-BII

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
47.38 kDa	65-70 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 stabilizer (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

The protein encoded by this gene is a type III glycoprotein that is located primarily in limiting membranes of lysosomes and endosomes. Earlier studies in mice and rat suggested that this protein may participate in membrane transportation and the reorganization of endosomal/lysosomal compartment. The protein deficiency in mice was reported to impair cell membrane transport processes and cause pelvic junction obstruction, deafness, and peripheral neuropathy. Further studies in human showed that this protein is a ubiquitously expressed protein and that it is involved in the pathogenesis of HFMD (hand, foot, and mouth disease) caused by enterovirus-71 and possibly by coxsackievirus A16. Mutations in this gene caused an autosomal recessive progressive myoclonic epilepsy-4 (EPM4), also known as action myoclonus-renal failure syndrome (AMRF). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Basic Information

Description

Recombinant Human LIMP II/SCARB2/CD36L2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Arg27-Thr432) of human SCARB2 (Accession #NP_005497.1) fused with a 6×His tag at the C-terminus.

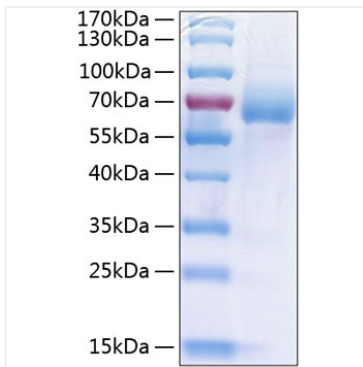
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human SCARB2 at 0.5 μg/mL (100 μL/well) can bind SCARB2 Rabbit mAb with a linear range of 0.2-1.2 ng/mL.

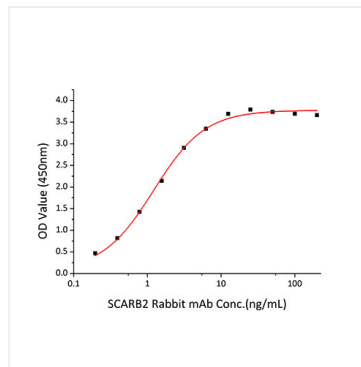
Storage

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.

Validation Data



Recombinant Human LIMP II/SCARB2/CD36L2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 68 kDa.



Immobilized recombinant Human SCARB2 at 0.5 μ g/mL (100 μ L/well) can bind SCARB2 Rabbit mAb with a linear range of 0.2-1.2 ng/mL.