Recombinant Human MSR1/CD204 Protein

Catalog No.: RP01033

Sequence Information

Species
Human

Gene ID
4481

Swiss Prot
P21757

Tags
C-His

Synonyms
CD204, SCARA1, SR-A, SR-AI, SR-AII, SR-AIII, SRA, phSR1, phSR2, MSR1,SCARA1,SR-A,SR-AI,SR-AII, SR-AIII,SRA,phSR1,phSR2

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
42.14 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

This protein is the class A macrophage scavenger receptors, which include three different types (1, 2, 3) generated by alternative splicing of this gene. These receptors or isoforms are macrophage-specific trimeric integral membrane glycoproteins and have been implicated in many macrophage-associated physiological and pathological processes including atherosclerosis, Alzheimer's disease, and host defense. The isoforms type 1 and type 2 are functional receptors and are able to mediate the endocytosis of modified low density lipoproteins (LDLs). The isoform type 3 does not internalize modified LDL (acetyl-LDL) despite having the domain shown to mediate this function in the types 1 and 2 isoforms. It has an altered intracellular processing and is trapped within the endoplasmic reticulum, making it unable to perform endocytosis. The isoform type 3 can inhibit the function of isoforms type 1 and type 2 when co-expressed, indicating a dominant negative effect and suggesting a mechanism for regulation of scavenger receptor activity in macrophages.

Basic Information

Description
Recombinant Human MSR1/CD204 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys77-Leu451) of human CD204 (Accession #NP_619729.1) fused with a 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human MSR1 Protein at 1μg/mL (100 μL/well) can bind MSR1 Rabbit pAb with a linear range of 0.76-2.88 ng/mL.
2.Measured by its binding ability in a functional ELISA. Immobilized Human A-I /APOA1 at 5μg/mL (100 μL/well) can bind Human MSR1/CD204 with a linear range of 1-49.4ng/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℃

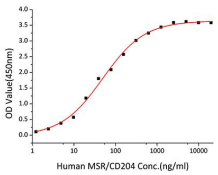
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

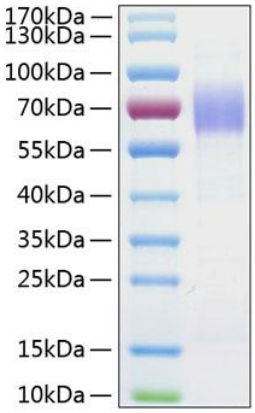
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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

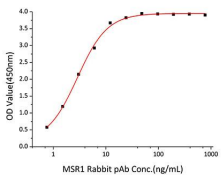
Validation Data



Immobilized Human A-I/APOA1 at 5μg/mL (100 μL/well) can bind Human MSR1 /CD204 with a linear range of 1-49.4ng/mL.



Recombinant Human MSR1/CD204 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human MSR1 Protein at 1μg/mL (100 μL/well) can bind MSR1 Rabbit pAb with a linear range of 0.76-2.88 ng/mL.