



[Go to Product page](#)

Datasheet for ABIN7534675

Macrophage Scavenger Receptor 1 Protein (MSR1) (His tag)

Overview

Quantity:	100 µg
Target:	Macrophage Scavenger Receptor 1 (MSR1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Macrophage Scavenger Receptor 1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human MSR1/CD204 Protein
Sequence:	KWETKNCSVS STNANDITQS LTGKGNDSEE EMRFQEVFME HMSNMEKRIQ HILDMEANLM DTEHFQNFMS TTDQRFNDIL LQLSTLFSSV QGHGNAIDEI SKSLISLNTT LLDLQLNIEN LNGKIQENTF KQQEEISKLE ERVYNVSAEI MAMKEEQVHL EQEIKGEVKV LNNITNDLRL KDWEHSQTLR NITLIQGPPG PPGEKGRGP TGESGPRGFP GPIGPPGLKG DRGAIGFPGS RGLPGYAGRP GNSGPKGQKG EKGSGNTLTP FTKVRLVGGG GPHEGRVEIL HSGQWGTICD DRWEVRVGQV VCRSLGYPGV QAVHKAHFG QGTGPIWLNE VFCFGRESSI EECKIRQWGT RACSHSEDAG VTCTL
Specificity:	Lys77-Leu451
Purity:	> 90 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Product Details

Biological Activity Comment: 1. Measured by its binding ability in a functional ELISA. Immobilized Human MSR1 Protein at 1 µg/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 5 µg/mL (100 µL/well) can bind Human MSR1/CD204 with a linear range of 1-49.4 ng/mL.

Target Details

Target: Macrophage Scavenger Receptor 1 (MSR1)

Alternative Name: MSR1/CD204 ([MSR1 Products](#))

Background: Description: 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.

Name: 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

Gene ID: 4481

UniProt: [P21757](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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 %

Handling

Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.