

Product Information

MemDX™ Membrane Protein Human MSR1 (Macrophage scavenger receptor 1) Full Length

Cat. No.: **MPC1876K**

This product is for research use only and is not intended for diagnostic use.

This product is a 49.7 kDa Human MSR1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

MSR1

Protein Length

Full length

Protein Class

Receptor

Molecular Weight

49.7 kDa

TMD

1

Sequence

MEQWDHFHNQQEDTDSCSESVKFDARSMTALLPPNPKNSPSLQEKLKSFK
AALIALYLLVFAVLIPLIGIVAAQLLKWETKNCSVSSTNANDITQSLTGK
GNDSEEMRFQEVFMEHMSNMEKRIQHILDMEANLMDTEHFQNFSTTDQ
RFNDILLQLSTLFSSVQGHGNAIDEISKSLISLNTTLLDLQLNIENLNGK
IQENTFKQQEEISKLEERVYNVSAEIMAMKEEQVHLEQEIKGEVKVLNNI
TNDLRLKDWESQTLRNITLIQGPPGPPGEKGDRGPTGESGPRGFPGPIG
PPGLKGDRGAIGFPGSRGLPGYAGRPGNSGPKGQKGEKGSNTLTPFTKV
RLVGGSGPHEGRVEILHSGQWGTICDDRWEVVRVGQVVCRLGYPGVQAVH
KAAHFGQGTGPIWLNEVFCFGRESSIEECKIRQWGTRACSHSEDAGVTCT
L

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

MSR1

Full Name

Macrophage scavenger receptor 1

Introduction

This gene encodes 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.

Alternative Names

MSR1; SRA; SR-A; CD204; SR-AI; phSR1; phSR2; SCARA1; SR-AII; SR-AIII; macrophage scavenger receptor types I and II; macrophage acetylated LDL receptor I and II; macrophage scavenger receptor type III; scavenger receptor class A member 1; Macrophage scavenger receptor 1

Gene ID

[4481](#)

UniProt ID

[P21757](#)