

Recombinant Human MSR1 Protein, GST-tagged

Cat. No. MSR1-5664H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Human MSR1 partial ORF (NP_619729, 121 a.a. - 220 a.a.) recombinant protein with GST-tag at N-terminal. |
| Species | Human |
| Source | Wheat Germ |
| Description | <p>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, Alzheimers 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. [provided by RefSeq</p> |
| Molecular Mass | 36.74 kDa |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|---|
| AA Sequence | MEKRIQHILDMEANLMDTEHFQNFSMTTDQRFNDILLQLSTLFSSVQGHGNAIDEISK SLISLNTTLLDLQLNIENLNGKIQENTFKQQEEISKLKERVY |
| Applications | Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array |
| Notes | Best use within three months from the date of receipt of this protein. |
| Storage | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| Storage Buffer | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

GENE INFORMATION

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|------------------------|--|
| Gene Name | MSR1 macrophage scavenger receptor 1 [Homo sapiens] |
| Official Symbol | MSR1 |
| Synonyms | MSR1; macrophage scavenger receptor 1; macrophage scavenger receptor types I and II; CD204; SCARA1; scavenger receptor class A member 1; scavenger receptor class A, member 1; macrophage scavenger receptor type III; macrophage acetylated LDL receptor I and II; SRA; SR-A; phSR1; phSR2; |
| Gene ID | 4481 |
| mRNA Refseq | NM_138716 |
| Protein Refseq | NP_619730 |

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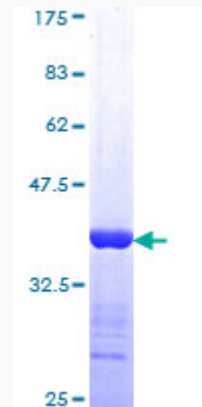
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MIM 153622

UniProt ID P21757

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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