

Human Macrophage Scavenger Receptor Types I And II (MSR1) ELISA Kit | MSR1 elisa kit

Human Macrophage Scavenger Receptor Types I And II (MSR1) ELISA Kit

CATALOG #
AAA331681

REACTIVITY
Human

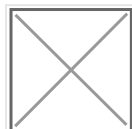
PRODUCT SYNONYMS

Macrophage Scavenger Receptor Types I And II (MSR1); Human Macrophage Scavenger Receptor Types I And II (MSR1) ELISA Kit; MSR1; CD204; SCARA1; SR-A; phSR1; phSR2; OTTHUMP00000120049; macrophage acetylated LDL receptor I and; macrophage scavenger receptor type1; scavenger receptor class A; member 1; MSR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Macrophage scavenger receptor types I and II (MSR1) ELISA Kit has high sensitivity and excellent specificity for detection of Human MSR1. No significant cross-reactivity or interference between Human MSR1 and analogues was observed.
Sequence Length	451
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Macrophage scavenger receptor types I and II (MSR1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MSR1 elisa kit	Description: This Human Macrophage scavenger receptor types I and II (MSR1) ELISA Kit employs a two-site sandwich ELISA to quantitate MSR1 in samples. An antibody specific for MSR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MSR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MSR1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MSR1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MSR1 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.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	127357
NCBI GeneID	4481
UniProt Accession #	P21757
NCBI Official Full Name	Macrophage scavenger receptor types I and II
NCBI Official Synonym Full Names	macrophage scavenger receptor 1
NCBI Official Symbol	MSR1
NCBI Official Synonym Symbols	SRA; SR-A; CD204; SR-AI; phSR1; phSR2; SCARA1; SR-AII; SR-AIII
NCBI Protein Information	macrophage scavenger receptor types I and II
UniProt Protein Name	Macrophage scavenger receptor types I and II
UniProt Gene Name	MSR1
UniProt Synonym Gene Names	SCARA1
UniProt Entry Name	MSRE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.