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MSR1 Antibody

Rabbit mAb
Catalog # AP91457

Product Information

Application	WB
Primary Accession	P21757
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Macrophage scavenger receptor types I and II; Macrophage acetylated LDL receptor I and II; Scavenger receptor class A member 1; CD204; MSR1; SCARA1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	49762

Additional Information

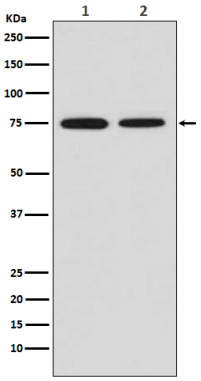
Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human MSR1
Description	Membrane glycoproteins implicated in the pathologic deposition of cholesterol in arterial walls during atherogenesis. Two types of receptor subunits exist. These receptors mediate the endocytosis of a diverse group of macromolecules, including modified low density lipoproteins (LDL). Isoform III does not internalize actetylated LDL.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	MSR1
Synonyms	SCARA1
Function	Membrane receptor that mediates the binding, endocytosis and phagocytosis of a broad range of ligands. Recognizes and internalizes modified forms of low-density lipoproteins including acetylated LDL (AcLDL) and oxidized LDL (OxLDL), thereby promoting cholesterol uptake and contributing to foam cell formation during atherogenesis (PubMed:2251254, PubMed:34252459). Binds various pathogen-associated and damage-associated molecules, including bacterial cell wall components, apoptotic cell debris and polyanionic ligands, supporting macrophage clearance activity in innate immune defense (PubMed:10722588). Upon stimulation by CpG DNA, mediates activation of LYN, which phosphorylates

	SYK that is subsequently recruited to endosomal TLR9 to promote downstream TLR9 signaling (PubMed:29057947, PubMed:40980882).
Cellular Location	Cell membrane; Single-pass type II membrane protein
Tissue Location	Isoform I, isoform II and isoform III are expressed in monocyte-derived macrophages. Isoform I and isoform II are expressed in the liver, placenta and brain.

Images



Western blot analysis of MSR1 expression in (1) HeLa cell lysate; (2) Mouse placenta lysate.

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