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Anti-MSR1 Reference Antibody (Regeneron patent anti-MSR1)

Catalog # APR11375

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P21757
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	49762

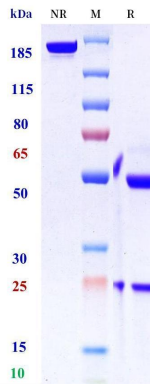
Additional Information

Target/Specificity	MSR1
Expression system	CHO

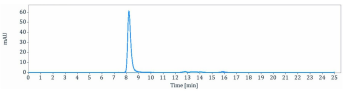
Protein Information

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.

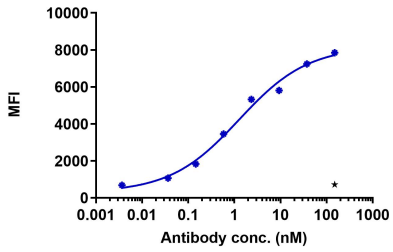
Images



Anti-MSR1 Reference Antibody (Regeneron patent anti-MSR1) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-MSR1 Reference Antibody (Regeneron patent anti-MSR1) is 98.58%, determined by SEC-HPLC.



PLVX-puro-MSR1-FL cell line were stained with Regeneron patent anti-MSR1 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 1.273 nM.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.