bs-6763R **[Primary Antibody]**

MSR1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4481 **SWISS:** P21757

Target: MSR1

Immunogen: KLH conjugated synthetic peptide derived from human MSR1/CD204: 211-320/451. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. [provided by RefSeq, Jul 2008]

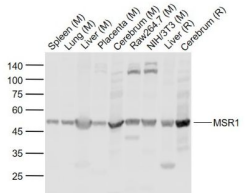
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat

Predicted MW.: 50 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Spleen (Mouse) Lysate at 40 ug Lane 2: Lung (Mouse) Lysate at 40 ug Lane 3: Liver (Mouse) Lysate at 40 ug Lane 4: Placenta (Mouse) Lysate at 40 ug Lane 5: Cerebrum (Mouse) Lysate at 40 ug Lane 6: Raw264.7 (Mouse) Cell Lysate at 30 ug Lane 7: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 8: Liver (Rat) Lysate at 40 ug Lane 9: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-MSR1 (bs-6763R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50/39 kD Observed band size: 50 kD

SELECTED CITATIONS

- **[IF=10.8]** Yanjuan Huang. et al. ROS-responsive sprayable hydrogel as ROS scavenger and GATA6+ macrophages trap for the prevention of postoperative abdominal adhesions. J CONTROL RELEASE. 2024 May;369:573 WB ;Mouse. 38554773
- **[IF=7.666]** Ryo Honma. et al. Immunomodulatory Macrophages Enable E-MNC Therapy for Radiation-Induced Salivary Gland Hypofunction. CELLS-BASEL. 2023 Jan;12(10):1417 ICC ;Mouse. 10.3390/cells12101417
- **[IF=8.097]** Ye M et al. SR-A-Targeted Phase-Transition Nanoparticles for the Detection and Treatment of AtheroscleroticVulnerable Plaques. ACS Appl Mater Interfaces. 2019 Mar 13;11(10):9702-9715. IHC ;Mouse. 30785263
- **[IF=6.832]** Yanhong Li. et al. Therapeutic potential of human umbilical cord mesenchymal stem cells on aortic atherosclerotic plaque in a high-fat diet rabbit model. Stem Cell Res Ther. 2021 Dec;12(1):1-14 IHC ;Rabbit. 34266502
- **[IF=6]** Yanhong Li. et al. Allogeneic Adipose-Derived Mesenchymal Stem Cell Transplantation Alleviates Atherosclerotic Plaque by Inhibiting Ox-LDL Uptake, Inflammatory Reaction and Endothelial Damage in Rabbits. CELLS-BASEL. 2023 Jan;12(15):1936 IHC ;Rabbit. 37566014