

## Mouse SR-AI/MSR Alexa Fluor® 750-conjugated Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 268318

Catalog Number: FAB1797S

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse SR-Al/MSR in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human SR-Al is observed.
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 268318
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse SR-AI/MSR Trp79-Ser454 Accession # AAA39747
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
	Recommended Sample Concentration	
Flow Cytometry	0.25-1 μg/10 <sup>6</sup> cells RAW 264.7 mouse monocyte/macrophage cell line	
PREPARATION AND S	STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze.	
	<ul> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>	

## BACKGROUND

The scavenger receptor (SR) family comprises a group of functionally defined membrane receptors that share the common ability to bind and internalize modified forms of Low Density Lipoproteins (mLDL) (1-3). Family members are classified alphabetically. The A class include four proteins: the three subtypes of SR-A (Al, All, and AIII) that are generated by alternative splicing of the same gene, and a structurally similar protein named MARCO (4). All A class SRs are multidomain trimeric type II membrane proteins. SR-AI has an N-terminal cytoplasmic domain, a transmembrane domain, a spacer domain, an α-helical coiled coil, a collagen-like domain and a C-terminal cysteine-rich domain. SR-A is expressed by most tissue macrophages, dendritic cells and Kupffer cells. It is also highly expressed by microglia in neonatal as well as Alzheimer' Disease brains. SR-Al binds a broad range of polyanionic ligands including modified proteins (e.g. Oxidized, acetylated or maleylated LDL, Advanced glycation end-product proteins), polyribonucleotides (polyguanosine and polyinosine), polysaccharides (dextran sulfate, fucoidan), phospholipids (phosphatidylserine), bacterial products (lipopolysaccharide and lipoteichoic acid) and selected chemical compounds (silica, crocidolite asbestos). The ligand-binding region has been localized to a positively charged region in the carboxyl end of the collagen-like domain. Based on its ligand binding characteristics, SR-Al is implicated in many physiological and pathophysiological functions. Studies using SR-A knockout mouse have also suggested roles of SR-A in atherogenesis, host defense and innate immunity, acquired immune responses, macrophage adhesion, and phagocytosis of apoptotic cells (1-3).

## References:

- Daugherty, A. et al. (2000) Curr. Opin. Cardiovasc. Pulm. Ren. Invest. Drugs 2:223. 1.
- Platt, N. and S. Gordon (2001) J. Clin. Invest. 108:649.
- 3. Platt, N. and S. Gordon (1998) Chem. Biol. 5:R193.
- Elomaa, O. et al. (1995) Cell 80:603.

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