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Monoclonal Antibody To Mouse Macrophage Scavenger Receptor

Marker For Receptor Type I And Type II

Monoclonal antibody 2F8 recognises the murine scavenger receptor types I and II. It inhibits the uptake of acetylated low-density lipoproteins and also inhibits divalent cation independent adhesion. The molecule recognised is expressed by tissue macrophages and functions both as an endocytic receptor for lipoproteins and as an adhesion receptor for macrophages binding to ligand rich tissues, e.g. atherosclerotic lesions.

Monoclonal antibody 2F8 recognizes an epitope within the α-helical coiled-coil domain of SR-A in all mouse strains tested, with the exception of C57BL/6. One amino-acid change (L168S), due to polymorphism, results in the loss of reactivity of antibody 2F8.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-2123 (Lot 04PO0207)
Clone:	2F8
Host species, isotype:	Rat IgG2b
Quantity:	250µg
Format:	Affinity purified, liquid. Supplied as 0.25ml solution This stock solution contains 1mg/ml IgG, phosphate buffered saline pH 7.4 (PBS), and 0.1% sodium azide as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in ELISA, FACS, western blotting and immunoprecipitation. **Approximate working dilution for IHC:** Frozen sections: 10µg/ml (1:100) Paraffin sections: does not react on routinely processed paraffin sections. Optimal dilutions should be determined by the end user. Suggested positive control: Mouse spleen. Please see **www.bma.ch** for protocols and general information.
Immunogen:	Raw 264 cell line

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Antigen, epitope:	The epitope has not been further characterized.
Specificity:	**Mouse:** macrophages
	Other species: not tested

Selected references

Fraser I.P. et al.: Nature **364**: 343-46 (1993)

de Villiers W.J.S. et al.: J. Exp. Med. **180**: 705-709 (1994)

Hughes D.A. et al.: Eur. J. Immunol. **25**: 466-73

Bell M.D. et al.: J. Neurocytol. **23**: 605-613 (1994)

Hughes, D.A. et al.: Imm. Lett. **43**: 7-14 (1994)

Daugherty, A et al.: Polymorphism of class A scavenger receptors in C57BL/6 mice. J Lipid Res **41**: 1568-77 (2000)

For in vitro research only. This product contains sodium azide as a preservative.

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