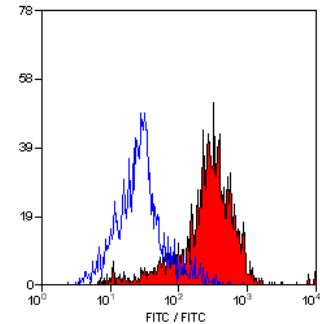


## Monoclonal Antibody to Mouse CD204 - FITC

<b>Catalog No.:</b>	SM029FS
<b>Quantity/Conc.:</b>	0.05 mg / 0.1 mg/ml
<b>Clone:</b>	2F8
<b>Host/Isotype:</b>	IgG2b
<b>Immunogen:</b>	RAW264 cell line
<b>Format:</b>	This antibody is supplied as liquid, Protein G purified immunoglobulin fraction conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) in PBS buffer pH 7.4 with 0.09 % Sodium Azide as preservative and 1 % Bovine Serum Albumin as stabiliser.



Staining of mouse peritoneal macrophages cells with RAT ANTI MOUSE CD204:FITC (SM029FS).

**Applications:** Flow Cytometry. Not suitable for Immunohistochemistry on paraffin and resin sections. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.

**Specificity:** SM029FS recognises the murine scavenger receptor class A (SRA), type I and II, also known as CD204. CD204 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. Clone 2F8 inhibits the uptake of acetylated low-density lipoproteins and also inhibits divalent cation independent adhesion (1). Recent research shows that clone 2F8 recognises an epitope within SRA that is polymorphic in the SRA from C57BL/6 mice. Clone 2F8 is therefore unsuitable for use with the C57BL/6 mouse strain (7).

**Storage:** Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.

**References:**

- Fraser, I.P. *et al.* (1993). Divalent cation-independent macrophage adhesion inhibited by monoclonal antibody to murine scavenger receptor. *Nature* 364: 343-346.
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- Hughes, D.A. *et al.* (1995). Murine Macrophage Scavenger Receptor: *in vivo* expression and function as receptor for macrophage adhesion in lymphoid and non-lymphoid organs. *Eur. J. Immunol.* 25: 466-473.
- Bell, M.D. *et al.* (1994). Upregulation of the macrophage scavenger receptor in response to different forms of injury in the CNS. *J. Neurocytol.* 23: 605-613.
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- Rosen, H. and Hughes, D.A. (1995). Assays of Myeloid Cell Function: Migration and adhesion *in vivo*. *Weir Handbook of Experimental Immunology*. London, Blackwell Scientific Publications. 5th, ed. In Press.
- Daugherty, A. *et al.* (2000). Polymorphism of class A scavenger receptors in C57BL/6 mice. *J. Lipid Res.* 41: 1568 - 1577.

SM029FS/AV0805

**For research and *in vitro* use only. Not for diagnostic or therapeutic work.**  
**Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.**

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