



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Mouse CD204:RPE

Catalog No.
DS-MB-03766

Target Species
Mouse

Isotype
IgG2b

Preparation

Synonyms: SCVR

Purification: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Immunogen: RAW264 cell line

Fusion Partners: Spleen cells from immunized AO rats were fused with cells of the Y3 rat myeloma cell line.

Specificity

DS-MB-03766 recognizes 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. DS-MB-03766 inhibits the uptake of acetylated low-density lipoproteins and also inhibits divalent cation independent adhesion (1).

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution: Reconstitute in 0.25 ml distilled water

Buffer Solution: Phosphate buffered saline pH7.4

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃), 1% Bovine Serum Albumin

Applications

Options	YES	NO	Not determined	Recommended Work dilution or concentration
Functions				
Flow Cytometry(1)	•			Neat

Note: Other applications are not tested yet. Optimal dilutions should be determined.

(1) Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 12 months from date of reconstitution.

References

1. Fraser, I.P. *et al.* (1993) Divalent cation-independent macrophage adhesion inhibited by monoclonal antibody to murine scavenger receptor. *Nature* 364: 343-346.
2. de Villiers, W.J.S. *et al.* (1994) Macrophage-colony-stimulating factor selectively enhances macrophage scavenger receptor expression and function *J. Exp. Med.* 180: 705-709.
3. 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.
4. 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.
5. Hughes, D.A. *et al.* (1994) Murine Macrophage Scavenger Receptor: Adhesion function and Expression. *Imm. Letts.* 43: 7-14.
6. 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.
7. Daugherty, A. *et al.* (2000) Polymorphism of class A scavenger receptors in C57BL/6 mice. *J. Lipid Res* 41: 1568 - 1577.

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