RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross,GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

RAT ANTI MOUSE CD204

With HRP-conjugated Secondary Antibody

Catalog No.	Target Species	Isotype
DS-MB-03763	Mouse	IgG2b

Preparation

Synonyms: SCVR
Immunogen: RAW264 cell line
Purification: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Fusion Partners: Spleen cells from immunised AO rats were fused with cells of the Y3 rat myeloma cell line.

Formulation

Product Type: Monoclonal Antibody
Product Form: Purified IgG - liquid
Buffer Solution: Phosphate buffered saline pH7.4
Preservative Stabilizers: 0.09%Sodium Azide
Approx. Protein Concentration: IgG concentration 1 mg/ml

Specificity

DS-MB-03763 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. DS-MB-03763 inhibits the uptake of acetylated low-density lipoproteins and also inhibits divalent cation independent adhesion (1).
Recent research shows that DS-MB-03763 recognizes an epitope within SRA that is polymorphic in the SRA from C57BL/6 mice. DS-MB-03763 is therefore unsuitable for use with the C57BL/6 mouse strain (7).

Storage

Store at +4^{o}C or at -20^{o}C if preferred.
This product should be stored undiluted.
Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life: 18 months from date of shipment

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Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry (1)	•			1/50 - 1/100
Immunohistology - Frozen	•			
Immunohistology - Paraffin		•		
Immunohistology - Resin		•		
ELISA			•	
Immunoprecipitation			•	
Western Blotting (2)			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(1) Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
(2) recognises CD204 in J774 cells under non-reduced conditions only.

Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

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.

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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.