



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 CD11b:RPE-Cy5

Catalog No.
DS-MB-03723

Target Species
Mouse

Isotype
IgG2b

Preparation

Immunogen: T cell enriched splenocytes from B10 mice.

Fusion Partners: Spleen cells from an immunized DA rat were fused with cells of the mouse NS1/1.Ag4.1 myeloma cell line.

Specificity

DS-MB-03723 recognizes the murine CD11b cell surface antigen (also known as the alpha M integrin chain or MAC-1), a differentiation antigen expressed by granulocytes, monocytes, NK cells and tissue macrophages.

The expression of CD11b increases during monocyte maturation and expression levels vary on tissue macrophages. Peritoneal macrophages are reported to express higher levels of CD11b than splenic macrophages.

DS-MB-03723 has been reported to as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue.

This product is routinely tested in flow cytometry on mouse peritoneal macrophages.

Species Cross Reactivity: Reacts with Human, Rabbit

* Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to R. Phycoerythrin -Cy5 (RPE- Cy5) - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃), Sucrose

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Applications

Options	YES	NO	Not determined	Recommended Work dilution or concentration
Functions				
Flow Cytometry (1)	•			Neat - 1/5

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

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: 6 months from date of dispatch.

Reference

1. Springer, T. et al. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. *Eur. J. Immunol.* 8:539-551.
2. Springer, T. et al. (1979) Mac-1: a macrophage differentiation antigen identified by a monoclonal antibody. *Eur. J. Immunol.* 9:301-306.
3. Beller, D.I. et al. (1982) Anti-Mac-1 selectively inhibits the mouse and human type three complement receptor *J. Exp. Med.* 156:1000-1009.
4. Whiteland, J.L. et al. (1995) Immunohistochemical detection of T cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. *J. Histochem. Cytochem.* 43:313-320.
5. Klingel, K. et al. (2003) Beta2-microglobulin-associated regulation of interferon-gamma and virus-specific immunoglobulin G confer resistance against the development of chronic coxsackievirus myocarditis. *Am. J. Pathol.* 162(5):1709-1720.
6. Welt, F.G. et al. (2000) Neutrophil, not macrophage, infiltration precedes neointimal thickening in balloon-injured arteries. *Arterioscler Thromb Vasc Biol.* 20: 2553-2558.

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