



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti Mouse CD11b With HRP-conjugated Secondary Antibody

Catalog No. DS-MB-03721	Species Mouse	Isotype IgG2b
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Preparation

Immunogen: T cell enriched splenocytes from B10 mice

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

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

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Preservative & Stabilizers: None present

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Endotoxin Level : <0.01EU/ug

Specificity

DS-MB-03721 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-03721 has been reported to block iC3b binding to its receptor (3). This product is routinely tested in flow cytometry on mouse peritoneal macrophages. Also reacts with human and rabbit CD11b.

Storage

Store at -20°C only. 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

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



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Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			▪	
Western Blot			▪	
Flow Cytometry	▪			1/50 - 1/100
Immunoprecipitation	▪			
Immunohistology – Frozen	▪			
Immunohistology – paraffin (1)	▪			
Functional Assays	▪			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
 (1) DS-MB-03721 has been reported as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue (4).

Secondary Antibody Applications

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

Reference

- 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.
- Springer, T. *et al.* (1979) Mac-1: a macrophage differentiation antigen identified by a monoclonal antibody. *Eur. J. Immunol.* 9:301-306.
- 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.

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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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