



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

RAT ANTI MOUSE CD51

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-03854

Target Species
Mouse

Isotype
IgG1

Preparation

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

Immunogen: cultured LAK cells from Balb/c mice.

Fusion Partners: Spleen cells from immunised SD rats were fused with the cells of the P3X.63Ag8.653 myeloma cell line

Specificity

DS-MB-03854 recognizes murine CD51, a 140 kD alpha subunit of the vitronectin receptor, which is otherwise known as the integrin alpha v chain. CD51 can form heterodimers at the cell surface with a variety of beta integrins including CD29 and CD61.

Heterodimers of CD51/CD61 functions as a receptor for vitronectin, and a wide array of RGD-containing proteins including fibronectin, fibrinogen, von Willebrand factor, laminin, thrombospondin and osteopontin. CD51/CD61 is primarily expressed on myeloid cells and activated T-cells. Alpha-V integrins may play a role in embryo implantation, angiogenesis and wound healing.

DS-MB-03854 has been reported to block binding of CD51 to vitronectin, fibronectin, and CD31 in some cell types, as well as blocking LAK cell cytotoxicity.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH 7.4

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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 dispatch.

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



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Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Elisa			•	
Western Blotting			•	
Immunoprecipitation	•			
Flow cytometry (1)	•			1:10-1:100

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 1×10^6 cells or 100ul whole blood.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5,000-1:10,000

Reference

1. Takahashi K. et al. (1990) A murine very late activation antigen-like extracellular matrix receptor involved in CD2- and lymphocyte function-associated antigen-1-independent killer-target cell interaction. J. Immunol. 145: 4371 – 4379.

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