



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI RAT CD31:FITC

With HRP-conjugated Secondary Antibody

Catalog No.	Species	Isotype
DS-MB-00597	Rat	IgG1

Preparation

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

Immunogen: Activated, Lewis rat derived microglial cells

Fusion Partners: Spleen cells from immunized BALB/c mouse were fused with cells of the mouse SP2 myeloma cell line.

Specificity

This antibody recognizes rat PECAM-1 (CD31), a type 1 transmembrane protein expressed primarily on endothelial cells, platelets and leucocytes.

This antibody has been shown to partially block the proliferative response of antigen-specific CD4⁺ T cells to antigen-presenting cells and relevant antigen (3).

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

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

Storage

18 months from date of dispatch.

Store at +4°C or at -20°C if preferred. This product should be stored undiluted.

Storage in frost free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing as this may denature the antibody.

This product is photosensitive and should be protected from light.

**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 Blotting			.	
Immunohistology - frozen			.	
Immunohistology - paraffin			.	
Immunohistology - resin			.	
Immunoprecipitation			.	
Flow Cytometry(*)	.			
Immunofluorescence			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(*)10ul of the suggested working dilution to label 106 cells in 100ul

Secondary Antibody Applications

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

Reference

1. Flaris, N.A. et al. (1993) Characterisation of microglia and macrophages in the central nervous system of the rat. *GLIA* 7: 34-40.
2. Male, D. et al. (1995) An interferon inducible molecule on brain endothelium which controls lymphocyte adhesion mediated by integrins. *Immunology* 84: 453-460.
3. Williams, K.C. et al. (1996) PECAM-1 (CD31) expression in the central nervous system and its role in experimental allergic encephalomyelitis in the rat. *J. Neurosci. Res.* 45(6):747-57.

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