



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Rat CD31:Biotin

Catalog No.
DS-MB-00594

Target Species
Rat

Isotype
IgG1

Preparation

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

Synonyms: PECAM

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

DS-MB-00594 recognizes rat PECAM-1 (CD31), a type 1 transmembrane protein expressed primarily on endothelial cells, platelets and leucocytes.

DS-MB-00594 has been shown to partially block the proliferative response of antigen-specific CD4⁺ T cells to antigen-presenting cells and relevant antigen⁽³⁾.

Species Cross Reactivity: Does not react with Human

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Biotin - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃), 1% Bovine Serum Albumin

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Applications

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

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. Method sheets are available on request.

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



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Storage

Store at +4°C or at -20°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 dispatch.

References

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.
4. Stevenson, K.S. *et al.* (2009) Isolation, characterization, and differentiation of thy1.1-sorted pancreatic adult progenitor cell populations. *Stem Cells Dev.* 18: 1389-98.

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