



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

Mouse Anti-Rat CD31

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-00599

Target Species
Rat

Isotype
IgG1

Preparation

Synonyms: PECAM

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

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

Immunogen: Activated, Lewis rat derived microglial cells

Specificity

DS-MB-00599 recognizes rat PECAM-1 (CD31), a type 1 transmembrane protein expressed primarily on endothelial cells, platelets and leucocytes.

Species Cross Reactivity: Does not react with Human

N.B. Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Storage

Store at $+4^\circ\text{C}$ 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.

**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 |
|-------------------------------|-----|----|----------------|--|
| Flow Cytometry (1) | • | | | 1/10 - 1/100 |
| Immunohistology - Frozen | • | | | 1/10 - 1/100 |
| Immunohistology – Paraffin | | • | | |
| Immunohistology - Resin | | | • | |
| ELISA | • | | | |
| Western Blotting | • | | | |

Note: Other applications are not tested yet. Optimal dilutions should be determined.
(1) Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. Method sheets are available on request.

Secondary Antibody Applications

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

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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