



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Human CD77

With HRP-Conjugated Second Antibody

Catalog No.

DS-MB-03665

Target Species

Human

Isotype

IgM

Preparation

Immunogen: Daudi cell line

Fusion Partners: Spleen cells from immunized Lewis rats were fused with cells of the SP2/0-Ag14 myeloma cell line.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgM - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.1% Sodium Azide, 0.2% Bovine Serum Albumin

Specificity

DS-MB-03665 is specific for the Gb3 - specific sugar sequence Gal alpha 1-4 Gal beta- 4G1c, also known as the blood group substance pk (CD77).

CD77 expression amongst leucocytes is restricted to the B cell lineage, and only cells at a certain maturation stage express the antigen.

In immunohistology, CD77 stains germinal centre B cells, but not those of the mantle or marginal zone.

It is also expressed by follicular dendritic cells, on endothelium and on some epithelial cell types.

Species Cross Reactivity: Reacts with Bovine

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

Storage

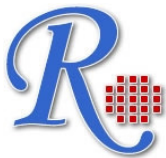
Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. 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) | • | | | Neat |
| Immunohistology - Frozen | • | | | Neat |
| Immunohistology - Paraffin | | • | | |
| Immunohistology - Resin | | | • | |
| Western Blotting | | | • | |

Note: Other applications are not tested yet. Optimal dilutions should be determined.
(1) Use 10ul of the suggested working dilution to label 5×10^5 cells or 100ul whole blood.

Secondary Antibody Applications

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

Reference

1. Wiels, J. *et al.* (1981) Monoclonal antibody against a Burkitt lymphoma-associated antigen. *Proc. Nat. Acad. Sci. USA* 78: 6485-6488.
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4. Fellous, M. *et al.* (1985) A monoclonal antibody against a Burkitt lymphoma associated antigen has an anti-Pk red blood cell specificity. *Brit. J. Haematol.* 60: 559-565.
5. Wiels, J. and Tursz, T. (1989) BLA a glycolipid marker of Burkitt's lymphoma and a subset of germinal-centre B-cells. In *Leucocyte Typing IV*. Knapp, W. Ed. Oxford University Press.
6. Yu, D. *et al.* (2007) Axon growth and guidance genes identify T-dependent germinal centre B cells. *Immunol Cell Biol.* 86: 3-14.
7. Stamm, I. *et al.* (2008) Epithelial and mesenchymal cells in the bovine colonic mucosa differ in their responsiveness to *Escherichia coli* Shiga toxin 1. *Infect Immun.* 76: 5381-91.

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