



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI RAT CD163:Biotin

With HRP-conjugated Secondary Antibody

Catalog No.	Species	Isotype
DS-MB-00404	Rat	IgG1

Preparation

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

Immunogen: Rat Spleen cell homogenate

Fusion Partners: Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.

Specificity

This product recognizes the rat CD163 cell surface glycoprotein, a 175kD molecule also known as ED2. CD163 is expressed by approximately 50% of peritoneal macrophages, a subset of splenic macrophages, and by macrophages in most other tissues. However, it is not expressed by monocytes, alveolar macrophages or microglial cells.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Biotin - liquid

Buffer Solution: Phosphate buffered saline pH7.4

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

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

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.

**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			•	
Immunofluorescence staining			•	
Flow Cytometry(*)	•			Neat - 1/10

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
 (*)Use 10ul of the suggested working dilution to label 10^6 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. Dijkstra, C.D. et al. (1985) The heterogeneity of mononuclear phagocytes in lymphoid organs: distinct macrophage subpopulations in the rat recognized by monoclonal antibodies ED1, ED2 and ED3. Immunology. 54:589-599.
2. Beelen, R.H.J. et al. (1987) Monoclonal antibodies ED1, ED2 and ED3 against rat macrophages: Expression of recognized antigens in different stages of differentiation. Transplant. Proc. 3: 3166-3170.

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3. Barbe, E. et al. (1990) Characterization and expression of the antigen present on resident rat macrophages recognized by monoclonal antibody ED2. Immunobiol. 182: 88-99.

4. Dijkstra, C.D. and Damoiseaux, J.G.M.C. (1993) Macrophage heterogeneity established by immunocytochemistry. Prog. Histochem. Cytochem. 27: 1-65.
5. Whiteland, J.L. et al. (1995) Immunohistochemical Detection of T-Cell Subsets and other Leucocytes in Paraffin-embedded Rat and Mouse Tissues with Monoclonal Antibodies. J. Histochem. Cytochem. 43(3): 313-320.
6. Polfliet, M.M.J. et al. (2002) Identification of the rat mature macrophage antigen ED2 as CD163: Regulation by glucocorticoids and role in the production of proinflammatory mediators. PhD Thesis. Vrije University, Amsterdam.

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