



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Mouse CD115

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-03712

Target Species
Mouse

Isotype
IgG1

Preparation

Synonyms: CSFMR, FMS

Purified IgG prepared by ion exchange chromatography

Fusion Partners: Spleen cells from immunized Sprague Dawley rats were fused with cells of the P3-653 myeloma cell line.

Immunogen: Raw 264 cells

Specificity

DS-MB-03712 recognizes the murine CD115 cell surface antigen, also known as the M-CSF receptor and as c-fms.

CD115 is expressed by cells of the monocytic lineage and by progenitor cells. This antibody has been shown to inhibit *in vitro* colony formation in response to M-CSF in both rats and mice.

Species Cross Reactivity: Reacts with Rat

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°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)	•			1/25 - 1/50
Immunohistology - Frozen			•	
Immunohistology – Paraffin			•	
Immunohistology - Resin			•	

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. Shadduck, R.K. *et al.* (1996) Paradoxical stimulation of normal and leukemic rat hematopoiesis by monoclonal antibody to CSF-I receptor. *Exp. Hematol.* 24: 314-317.
2. Gilmore, G.L. *et al.* (1995) Inhibition of day-12 spleen colony-forming units by a monoclonal antibody to the murine macrophage/monocyte colony-stimulating factor receptor. *Blood* 85: 2731-2734.
3. MacDonald, K.P.A. *et al.* (2005) The colony stimulating factor 1 receptor is expressed on dendritic cells during differentiation and regulates their expansion. *J. Immunol.* 175: 1399-1405.
4. Buono, M. *et al.* (2010) Sulfatase modifying factor 1-mediated fibroblast growth factor signaling primes hematopoietic multilineage development. *J Exp Med.* Jul 26. [Epub ahead of print]

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