

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Mouse ER-MP58

With HRP-conjugated Secondary Antibody

Catalog No. Species Isotype
DS-MB-03901 Mouse IgG2a

Preparation

Purification: Purified IgG prepared by affinity chromatography on Protein G

Immunogen: Balb/c macrophage precursor cell hybrids

Specificity

DS-MB-03901 recognizes the murine antigen ER-MP58, which is expressed by all bone marrow-derived M-CSF- and GM-CSF-responsive myeloid blood cell precursors. The expression of ER-MP58 remains at a high level throughout the precursor/monocyte stage and is down-regulated upon maturation into mature macrophages. The ER-MP58 antigen is used to distinguish between early myeloid-committed cells and other haematopoietic progenitors cells in the BM. The antigen has been used as a marker of murine macrophage development in the BM. ER-MP58 is suitable for the identification of myeloid haemopoietic islands in various organs, and for embryonal studies.

Formulation

Product Type: Monoclonal Antibody Product Form: Purified IgG - liquid Buffer Solution: Phosphate buffered saline Preservative Stabilizers: 0.09% Sodium Azide

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry	•			
Immunohistology - Froze	•			1:25 – 1:100
Immunoprecipitation	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined.



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Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. **Shelf Life:** 12 months from date of dispatch.

Secondary Antibody Applications

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

References

- 1. Leenen, P.J. et al. (1990) Murine macrophage precursor characterization II. Monoclonal anti bodies against macrophage precursor antigens. Eur. J. Immunol. 20: 27-34.
- 2. Henkel, G.W. et al. (1999) Commitment to the monocytic lineage occurs in the absence of the e transcription factor PU.1 Blood. 93: 2849-2858.
- 3. Nikolic, T. et al. (2003) Developmental stages of myeloid dendritic cells in mouse bone marr ow. Int. Immunol.15: 515-524.
- 4. Geutskens, S.B. et al. (2005) Macrophages in the murine pancreas and their involvement in fetal endocrine development in vitro. J Leukoc Biol. 78: 845-52.
- 5. Sunderkötter, C. et al. (2004) Subpopulations of mouse blood monocytes differ in maturation stage and inflammatory response. J Immunol. 172: 4410-7.
- 6. Chan, J. et al., (1998) Macrophage lineage cells in inflammation: characterization by colonystimulating factor-1 (CSF-1) receptor (c-Fms), ER-MP58, and ER-MP20 (Ly-6C) expression. BI ood. 1998 Aug 92: 1423-31.
- 7. Sunderkötter, C. et al. (2004) Subpopulations of mouse blood monocytes differ in maturation stage and inflammatory response. J Immunol. 172: 4410-7.
- 8. Wynn, A.A. et al. (2001) Role of granulocyte/macrophage colony-stimulating factor in zymoc el-induced hepatic granuloma formation. Am J Pathol. 158: 131-45.
- 9. Rössner, S. et al. (2005) Myeloid dendritic cell precursors generated from bone marrow sup press T cell responses via cell contact and nitric oxide production in vitro. Eur J Immunol. 35: 3 533-44.