

Datasheet: MCA2393A488

Description:	RAT ANTI MOUSE ER-HR3:Alexa Fluor® 488
Specificity:	ER-HR3
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ER-HR3
Isotype:	IgG2c
Quantity:	100 TESTS/1ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®488</td> <td>495</td> <td>519</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®488	495	519
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®488	495	519					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						
Immunogen	Adherent F1 (CBAxBL) bone marrow stromal cells.						
Fusion Partners	Cells from immunised rats were fused with cells of the mouse P3 - X63 - Ag8.563 myeloma cell line.						
Specificity	Rat anti Mouse ER-HR3, clone ER-HR3 recognizes the murine antigen ER-HR3. ER-HR3 is a cell surface antigen expressed by Langerhans cells in epithelium, a subset of mature macrophages and						

dendritic cells located predominantly in haematopoietic and lymphoid organs. ER-HR3 demonstrates very low levels of expression on peripheral blood monocytes.

During foetal development, ER-HR3 positive cells are localised to haemopoietic islands and are often associated with erythroid progenitor cells. The functions of the ER-HR3 antigen have not been established but reports suggest that the antigen may be involved in adult erythropoiesis and in the regulation of the immune response.

Rat anti Mouse ER-HR3, clone ER-HR3 does not inhibit T cell proliferation in antigen-specific T-cell proliferation studies.

Rat anti Mouse ER-HR3, clone ER-HR3 recognizes two proteins of ~69 kDa and a minor one of ~55 kDa under non-reducing conditions ([de Jong et al. 1994](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References

1. de Jong, J.P. *et al.* (1994) A monoclonal antibody (ER-HR3) against murine macrophages. I. Ontogeny, distribution and enzyme histochemical characterization of ER-HR3-positive cells. [Cell Tissue Res. 275: 567-76.](#)
2. Oliveira, M.A. *et al.* (2003) Immature macrophages derived from mouse bone marrow produce large amounts of IL-12p40 after LPS stimulation. [J Leukoc Biol. 74: 857-67.](#)
3. Throsby, M. *et al.* (2000) CD11c+ eosinophils in the murine thymus: developmental regulation and recruitment upon MHC class I-restricted thymocyte deletion. [J Immunol. 165:1965-75.](#)
4. Grabbe, S. *et al.* (2002) Beta2 integrins are required for skin homing of primed T cells but not for priming naive T cells. [J Clin Invest. 109: 183-92.](#)
5. Sonoda, Y. and Sasaki, K. (2012) Hepatic extramedullary hematopoiesis and macrophages in the adult mouse: histometrical and immunohistochemical studies. [Cells Tissues Organs. 196: 555-64.](#)
6. Jacobsen, R.N. *et al.* (2014) Mobilization with granulocyte colony-stimulating factor blocks medullar erythropoiesis by depleting F4/80+VCAM1+CD169+ER-HR3+Ly6G+ erythroid island macrophages in the mouse. [Exp Hematol. pii: S0301-472X\(14\)00139-8.](#)
7. Vogel, J. *et al.* (2003) Transgenic mice overexpressing erythropoietin adapt to excessive erythrocytosis by regulating blood viscosity. [Blood. 102 \(6\): 2278-84.](#)

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. This product is photosensitive and should be protected from light.

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 despatch.

Acknowledgements

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10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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