

## Datasheet: MCA2393T

<b>Description:</b>	RAT ANTI MOUSE ER-HR3
<b>Specificity:</b>	ER-HR3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ER-HR3
<b>Isotype:</b>	IgG2c
<b>Quantity:</b>	25 µg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Adherent F1 (CBAXBL) bone marrow stromal cells.
<b>Fusion Partners</b>	Cells from immunised rats were fused with cells of the mouse P3 - X63 - Ag8.563 myeloma cell

line.

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**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](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- 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.](#)

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**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.

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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®649</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>

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