

## 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

**RRID** AB\_1102541

**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.

**Target Species** Mouse

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide

**Carrier Free** Yes

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

**Immunogen** 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.
<b>Specificity</b>	<p><b>Rat anti Mouse ER-HR3, clone ER-HR3</b> 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.</p> <p>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.</p> <p>Rat anti Mouse ER-HR3, clone ER-HR3 does not inhibit T cell proliferation in antigen-specific T-cell proliferation studies.</p> <p>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 (<a href="#">de Jong et al. 1994</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>de Jong, J.P. <i>et al.</i> (1994) A monoclonal antibody (ER-HR3) against murine macrophages. I. Ontogeny, distribution and enzyme histochemical characterization of ER-HR3-positive cells. <a href="#">Cell Tissue Res. 275: 567-76.</a></li> <li>Oliveira, M.A. <i>et al.</i> (2003) Immature macrophages derived from mouse bone marrow produce large amounts of IL-12p40 after LPS stimulation. <a href="#">J Leukoc Biol. 74: 857-67.</a></li> <li>Throsby, M. <i>et al.</i> (2000) CD11c+ eosinophils in the murine thymus: developmental regulation and recruitment upon MHC class I-restricted thymocyte deletion. <a href="#">J Immunol. 165:1965-75.</a></li> <li>Grabbe, S. <i>et al.</i> (2002) Beta2 integrins are required for skin homing of primed T cells but not for priming naive T cells. <a href="#">J Clin Invest. 109: 183-92.</a></li> <li>Sonoda, Y. and Sasaki, K. (2012) Hepatic extramedullary hematopoiesis and macrophages in the adult mouse: histometrical and immunohistochemical studies. <a href="#">Cells Tissues Organs. 196: 555-64.</a></li> <li>Jacobsen, R.N. <i>et al.</i> (2014) Mobilization with granulocyte colony-stimulating factor blocks medullary erythropoiesis by depleting F4/80+VCAM1+CD169+ER-HR3+Ly6G+ erythroid island macrophages in the mouse. <a href="#">Exp Hematol. pii: S0301-472X(14)00139-8.</a></li> <li>Vogel, J. <i>et al.</i> (2003) Transgenic mice overexpressing erythropoietin adapt to excessive erythrocytosis by regulating blood viscosity. <a href="#">Blood. 102 (6): 2278-84.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>

## Related Products

### Recommended Secondary Antibodies

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

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