Datasheet: MCA2393T

BATCH NUMBER 1708

Description:	RAT ANTI MOUSE ER-HR3
Specificity:	ER-HR3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-HR3
Isotype:	IgG2c
Quantity:	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.

	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 stormal cells.
RRID	AB_1102541
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 haemapoietic 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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2393T 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550, DyLight®650, DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin

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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