Datasheet: MCA2393

Description:	RAT ANTI MOUSE ER-HR3
Specificity:	ER-HR3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-HR3
Isotype:	IgG2c
Quantity:	0.25 mg

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 product 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 product 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 (NaN_3)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Adherent F1 (CBAxBL) bone marrow stormal cells.
RRID	AB_872053
Fusion Partners	Cells from immunized 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, 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 localized to haemapoietic islands and are often associated with erythroid progenitor cells. ER-HR3 antigen may be involved in adult erythropoiesis and in the regulation of the immune response (de Jong *et al*. 1994). Rat anti Mouse ER-HR3, clone ER-HR3 does not inhibit antigen-specific T-cell proliferation. Rat anti Mouse ER-HR3, clone ER-HR3 recognizes two bands of ~69 kDa and a minor one of ~55 kDa under non-reducing conditions (de Jong *et al*. 1994).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl.
References	1. 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. 2. 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. 3. Vogel, J. *et al.* (2003) Transgenic mice overexpressing erythropoietin adapt to excessive erythrocytosis by regulating blood viscosity. Blood. 102 (6): 2278-84. 4. 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. 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. 42 (7): 547-61.e4.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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/MCA2393 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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