

Datasheet: MCA2402

Description:	RAT ANTI MOUSE ER-TR7
Specificity:	ER-TR7
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-TR7
Isotype:	IgG2a
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)	■			
Immunohistology - Frozen	■			1/50 - 1/100
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.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

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	Isolated C3H thymic stromal cells.

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-TR7 antibody, clone ER-TR7 recognizes ER-TR7, an antigen that is located in the cytoplasm of reticular fibroblasts and is a component of the extracellular matrix of lymphoid and non-lymphoid organs. The antigen recognized by clone ER-TR7 has not been identified but studies suggest that it is likely to be distinct from laminin, fibronectin, collagen types I-IV, heparin sulphate proteoglycan, entactin and nidogen. Clone ER-TR7 has been used to stain the microanatomy of various organs and also stains subendothelial deposits in atherosclerotic plaques.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
Histology Positive Control Tissue	Spleen
References	1. Van Vliet, E. <i>et al.</i> (1986) Reticular fibroblasts in peripheral lymphoid organs identified by a monoclonal antibody. J Histochem Cytochem. 34 (7): 883-90. 2. Kalled, S.L. <i>et al.</i> (1998) Anti-CD40 ligand antibody treatment of SNF1 mice with established nephritis: preservation of kidney function. J Immunol. 160: 2158-65. 3. Köhler, C.N. (2010) The actin-binding protein caldesmon is in spleen and lymph nodes predominately expressed by smooth-muscle cells, reticular cells, and follicular dendritic cells. J Histochem Cytochem. 58 (2): 183-93. 4. Tumanov, A.V. <i>et al.</i> (2010) Cellular source and molecular form of TNF specify its distinct functions in organization of secondary lymphoid organs. Blood. 116: 3456-64. 5. Kumamoto, Y. <i>et al.</i> (2009) MGL2 Dermal dendritic cells are sufficient to initiate contact hypersensitivity in vivo. PLoS One. 4: e5619. 6. Fujii, N. <i>et al.</i> (2006) Targeting of interstitial cells using a simple gene-transfer strategy. Nephrol Dial Transplant. 21: 2745-53. 7. Katakai, T. <i>et al.</i> (2003) Th1-biased tertiary lymphoid tissue supported by CXC chemokine ligand 13-producing stromal network in chronic lesions of autoimmune gastritis. J Immunol. 171: 4359-68. 8. Mueller, S.N. <i>et al.</i> (2007) Viral targeting of fibroblastic reticular cells contributes to immunosuppression and persistence during chronic infection. Proc Natl Acad Sci U S A. 104:15430-5. 9. Bennett, K.M. <i>et al.</i> (2016) Induction of Colonic M Cells during Intestinal Inflammation. Am J Pathol. 186 (5): 1166-79. 10. Burrell, B.E. <i>et al.</i> (2015) Lymph Node Stromal Fiber ER-TR7 Modulates CD4+ T Cell Lymph Node Trafficking and Transplant Tolerance. Transplantation. 99 (6): 1119-25. 11. Umemoto, E. <i>et al.</i> (2012) Constitutive plasmacytoid dendritic cell migration to the splenic white pulp is cooperatively regulated by CCR7- and CXCR4-mediated signaling. J Immunol. 189 (1): 191-9. 12. Watanabe, R. <i>et al.</i> (2016) Formation of fibroblastic reticular network in the brain after infection with neurovirulent murine coronavirus. Neuropathology. Apr 28. [Epub ahead of print]
Further Reading	1. Lokmic, Z. <i>et al.</i> (2008) The extracellular matrix of the spleen as a potential organizer of immune cell compartments. Semin Immunol. 20: 4-13.
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.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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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