

Datasheet: MCA2402

BATCH NUMBER 147833

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.
RRID	AB_915429
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	<ol style="list-style-type: none"> 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. *et al.* (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. *et al.* (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. *et al.* (2016) Formation of fibroblastic reticular network in the brain after infection with neurovirulent murine coronavirus. [Neuropathology. Apr 28. \[Epub ahead of print\]](#)
13. Marrero, L. *et al.* (2017) Fibroblast reticular cells engineer a blastema extracellular network during digit tip regeneration in mice. [Regeneration \(Oxf\). 4 \(2\): 69-84.](#)
14. Dawson, L.A. *et al.* (2020) Proximal digit tip amputation initiates simultaneous blastema and transient fibrosis formation and results in partial regeneration. [Wound Repair Regen. Aug 19 \[Epub ahead of print\].](#)

Further Reading 1. Lokmic, Z. *et al.* (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.

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/MCA2402>
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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 (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
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

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

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

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