

Datasheet: MCA276R

Description:	MOUSE ANTI RAT ENDOTHELIUM
Specificity:	ENDOTHELIUM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-43
Isotype:	IgG1
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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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	Rat
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	Rat peritoneal macrophages.
RRID	AB_322043
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with the NS0/U mouse myeloma cell line.
Specificity	Mouse anti Rat Endothelium antibody, clone OX-43 recognizes an antigen of ~90 kDa expressed on all vascular endothelial cells in the rat, with the exception of those in the brain. Mouse anti Rat Endothelium antibody, clone OX-43 also recognizes resident and activated peritoneal macrophages, a subset of alveolar macrophages and erythrocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Robinson, A.P. <i>et al.</i> (1986) MRC OX-43: a monoclonal antibody which reacts with all vascular endothelium in the rat except that of brain capillaries. Immunology. 57 (2): 231-7. 2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology. 42 (4): 593-600. 3. Ulger, H. <i>et al.</i> (2002) Labelling of rat endothelial cells with antibodies to vWF, RECA-1, PECAM-1, ICAM-1, OX-43 and ZO-1. Anat Histol Embryol. 31 (1): 31-5. 4. Fiegel, H.C. <i>et al.</i> (2003) Characterization of cell types during rat liver development. Hepatology. 37 (1): 148-54. 5. Fiegel, H.C. <i>et al.</i> (2003) Hepatic lineages isolated from developing rat liver show different ways of maturation. Biochem Biophys Res Commun. 305 (1): 46-53. 6. Lange, C. <i>et al.</i> (2006) Hepatocytic differentiation of mesenchymal stem cells in cocultures with fetal liver cells. World J Gastroenterol. 12 (15): 2394-7. 7. Mittal, B. <i>et al.</i> (2003) Expression of a membrane-bound form of the ferroxidase ceruloplasmin by leptomeningeal cells. Glia. 41 (4): 337-46. 8. Koenig, S. <i>et al.</i> (2005) Liver repopulation after hepatocellular transplantation: integration and interaction of transplanted hepatocytes in the host. Cell Transplant. 14 (1): 31-40. 9. Metzger, R. <i>et al.</i> (2011) Heterogeneous distribution of angiotensin I-converting enzyme (CD143) in the human and rat vascular systems: vessel, organ and species specificity. Microvasc Res. 81 (2): 206-15.
Storage	<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>
Guarantee	12 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

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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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