Datasheet: MCA276GA

Description:	MOUSE ANTI RAT ENDOTHELIUM
Specificity:	ENDOTHELIUM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-43
Isotype:	IgG1
Quantity:	0.1 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 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	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_931762
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	1. Robinson, A.P. *et al.* (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. *et al.* (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. *et al.* (2003) Characterization of cell types during rat liver development. Hepatology. 37 (1): 148-54. 5. Fiegel, H.C. *et al.* (2003) Hepatic lineages isolated from developing rat liver show different ways of maturation. Biochem Biophys Res Commun. 305 (1): 46-53. 6. Lange, C. *et al.* (2006) Hepatocytic differentiation of mesenchymal stem cells in cocultures with fetal liver cells. World J Gastroenterol. 12 (15): 2394-7. 7. Mittal, B. *et al.* (2003) Expression of a membrane-bound form of the ferroxidase ceruloplasmin by leptomeningeal cells. Glia. 41 (4): 337-46. 8. Koenig, S. *et al.* (2005) Liver repopulation after hepatocellular transplantation: integration and interaction of transplanted hepatocytes in the host. Cell Transplant. 14 (1): 31-40. 9. Metzger, R. *et al.* (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	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. 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: 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

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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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