

Datasheet: MCA1029PE

Description:	MOUSE ANTI RAT OX-62:RPE
Specificity:	OX-62
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-62
Isotype:	IgG1
Quantity:	100 TESTS

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	■			Neat

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 conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	
	5%	Sucrose	
Immunogen	Density gradient enriched PVG rat thoracic duct dendritic cells.		
External Database Links	UniProt: O88341 Related reagents		
Fusion Partners	Spleen cells of BAL B/c mice were fused with cells of the mouse N		

Specificity	Mouse anti Rat OX-62 antibody, clone OX-62 recognizes the OX-62 antigen, also known as rat alpha E2 integrin, an 1150 amino acid, ~130 kDa single pass type I transmembrane protein expressed by intestinal dendritic cells, dendritic epidermal T cells, intraepithelial lymphocytes in the small intestine and by cells of dendritic morphology in lymphoid organs, at sites where gamma delta T cells are present.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. Brennan, M. & Puklavec, M. (1992) The MRC OX-62 antigen: a useful marker in the purification of rat veiled cells with the biochemical properties of an integrin. J Exp Med. 175 (6): 1457-65. 2. Brennan, M. & Rees, D.J. (1997) Sequence analysis of rat integrin alpha E1 and alpha E2 subunits: tissue expression reveals phenotypic similarities between intraepithelial lymphocytes and dendritic cells in lymph. Eur J Immunol. 27 (11): 3070-9. 3. Kostulas, N. <i>et al.</i> (2002) Dendritic cells are present in ischemic brain after permanent middle cerebral artery occlusion in the rat. Stroke. 33 (4): 1129-34. 4. Rival, C. <i>et al.</i> (2006) Identification of a dendritic cell population in normal testis and in chronically inflamed testis of rats with autoimmune orchitis. Cell Tissue Res. 324 (2): 311-8. 5. Tsuchiya, T. <i>et al.</i> (2002) Dendritic cell involvement in pulmonary granuloma formation elicited by bacillus calmette-guérin in rats. Am J Respir Crit Care Med. 165 (12): 1640-6. 6. Zilka, N. <i>et al.</i> (2009) Human misfolded truncated tau protein promotes activation of microglia and leukocyte infiltration in the transgenic rat model of tauopathy. J Neuroimmunol. 209 (1-2): 16-25. 7. Schwartzkopff, J. <i>et al.</i> (2010) NK cell depletion delays corneal allograft rejection in baby rats. Mol Vis. 16: 1928-35. 8. Baca Jones, C.C. <i>et al.</i> (2009) Rat cytomegalovirus infection depletes MHC II in bone marrow derived dendritic cells. Virology. 388: 78-90. 9. Zhou, Y.J. <i>et al.</i> (2010) The role of the lactadherin in promoting intestinal DCs development <i>in vivo</i> and <i>vitro</i>. Clin Dev Immunol. 2010: 357541. 10. Aiello, S. <i>et al.</i> (2000) Thymic Dendritic Cells Express Inducible Nitric Oxide Synthase and Generate Nitric Oxide in Response to Self- and Alloantigens J Immunol. 164: 4649-58. 11. Camelo, S. <i>et al.</i> (2003) Local retention of soluble antigen by potential antigen-presenting cells in the anterior segment of the eye. Invest Ophthalmol Vis Sci. 44: 5212-9. 12. Camelo, S. <i>et al.</i> (2004) The distribution of antigen in lymphoid tissues following its injection into the anterior chamber of the rat eye. J Immunol. 172: 5388-95. 13. Henry, F. <i>et al.</i> (1999) Antigen-presenting cells that phagocytose apoptotic tumor-derived cells are potent tumor vaccines. Cancer Res. 59: 3329-32. 14. Liu, L. <i>et al.</i> (1998) Dendritic cell heterogeneity <i>in vivo</i>: two functionally different dendritic cell populations in rat intestinal lymph can be distinguished by CD4 expression. J Immunol. 161: 1146-55. 15. O'Sullivan, N.L. <i>et al.</i> (2001) Lymphocyte lineages at mucosal effector sites: rat salivary glands. J Immunol. 166: 5522-9. 16. Penttila, I.A. <i>et al.</i> (2003) Maternal milk regulation of cell infiltration and interleukin 18 in the intestine of suckling rat pups. Gut. 52: 1579-86. 17. Stephens, L.A. <i>et al.</i> (2004) Phenotypic characterization of regulatory CD4+CD25+ T cells in rats. Int Immunol. 16: 365-75. 18. Sugawara, I. <i>et al.</i> (2004) Pathological and immunological profiles of rat tuberculosis. Int J Exp Pathol. 85: 125-34. 19. Tiurbe, G. <i>et al.</i> (2009) Inhibitory effects of rat bone marrow-derived dendritic cells on naïve and alloantigen-specific CD4+ T cells: a comparison between dendritic cells generated with GM-CSF plus IL-4 and dendritic cells generated with GM-CSF plus IL-10. BMC Res Notes. 2: 12. 20. Tsuchiya, T. <i>et al.</i> (2002) Dendritic cell involvement in pulmonary granuloma formation elicited by bacillus calmette-guérin in rats. Am J Respir Crit Care Med. 165: 1640-6.

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26. Raissadati, A. *et al.* (2017) Vascular Endothelial Growth Factor-B Overexpressing Hearts Are Not Protected From Transplant-Associated Ischemia-Reperfusion Injury. [Exp Clin Transplant. 15 \(2\): 203-12.](#)

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

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