

Datasheet: MCA1590PE BATCH NUMBER 166538

Description:	MOUSE ANTI HUMAN CD40:RPE			
Specificity:	CD40			
Format:	RPE			
Product Type:	Monoclonal Antibody			
Clone:	LOB7/6			
Isotype:	lgG2a			
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 <u>www.bio-</u>						
	rad-antibodies.com/pi	Yes No	`	Not Determined	Suggested Dilution		
	Flow Cytometry	-	,	Not Determined	Neat		
	Where this product has not been tested for use in a particular technique this does not						
	necessarily exclude it a guide only. It is reco	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	Human						
Species Cross Reactivity	Reacts with: Dog N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1ml distilled water						
Max Ex/Em	Fluorophore	Excitation Max (חm) E	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Antibody purified from tissue culture supernatant						

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Immunogen	CD40 Ig(Fc) fusion protein containing the EC region of human CD40 and Fc region of human IgG.
External Database Links	UniProt: P25942 Related reagents Entrez Gene: 958 CD40 Related reagents
Synonyms	TNFRSF5
RRID	AB_321688
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Human CD40 antibody, clone LOB7/6 recognizes the human CD40 cell surface antigen, a 48kDa glycoprotein expressed by B lymphocytes and weakly by some monocytes.CD40 is involved in the process of B cell selection in germinal centres and is vital in T cell-B cell interactions.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in $100µ$ l
References	 Quadbeck, B. <i>et al.</i> (2002) Maturation of thyroidal dendritic cells in Graves' disease. Scand J Immunol. 55 (6): 612-20. Kirsch, B. M. <i>et al.</i> (2005) The active metabolite of leflunomide, A77 1726, interferes with dendritic cell function. Arthritis Res. Ther. 7: R694-R703. Cheadle, E. <i>et al.</i> (2003) <i>Mycobacterium bovis</i> bacillus Calmette-Guerin-infected dendritic cells potently activate autologous T cells via a B7 and interleukin-12-dependent mechanism. Immunology.108: 79-88. Carpenter, E.L. <i>et al.</i> (2009) Activation of human B cells by the agonist CD40 antibody CP-870,893 and augmentation with simultaneous toll-like receptor 9 stimulation. J Transl Med. 7: 93. Garcia-Nieto, S. <i>et al.</i> (2010) Laminin and Fibronectin Treatment Leads to Generation of Dendritic Cells with Superior Endocytic Capacity. <u>PLoS ONE. 5: 1-10.</u> Wang, Y.S. <i>et al.</i> (2007) Characterization of canine monocyte-derived dendritic cells with phenotypic and functional differentiation. <u>Can J Vet Res. 71: 165-74.</u> Vlachoyiannopoulos, P.G. <i>et al.</i> (2004) Anti-CD40 antibodies in antiphospholipid syndrome and systemic lupus erythematosus. <u>Thromb Haemost. 92: 1303-11.</u> Leigh, J.E. <i>et al.</i> (2006) Characterization of the immune status of CD8+ T cells in oral

	 lesions of human immunodeficiency virus-infected persons with oropharyngeal Candidiasis. <u>Clin Vaccine Immunol. 13: 678-83.</u> 9. Newman, K.C. <i>et al.</i> (2006) Cross-talk with myeloid accessory cells regulates human natural killer cell interferon-gamma responses to malaria. <u>PLoS Pathog. 2: e118.</u> 10. Kuijf, M.L. <i>et al.</i> (2010) TLR4-mediated sensing of <i>Campylobacter jejuni</i> by dendritic cells is determined by sialylation. <u>J Immunol. 185: 748-55.</u> 11. Huizinga R <i>et al.</i> (2015) Innate Immunity to <i>Campylobacter jejuni</i> in Guillain-Barré Syndrome. <u>Ann Neurol. 78 (3): 343-54.</u> 12. Yıldırım C <i>et al.</i> (2015) Galectin-2 induces a proinflammatory, anti-arteriogenic phenotype in monocytes and macrophages. <u>PLoS One. 10 (4): e0124347.</u> 13. Brencicova, E. <i>et al.</i> (2017) Interleukin-10 and prostaglandin E2 have complementary but distinct suppressive effects on Toll-like receptor-mediated dendritic cell activation in ovarian carcinoma. <u>PLoS One. 12 (4): e0175712.</u> 14. Silk, K.M. <i>et al.</i> (2012) Rapamycin conditioning of dendritic cells differentiated from human ES cells promotes a tolerogenic phenotype. <u>J Biomed Biotechnol. 2012: 172420.</u> 15. Tischer, S. <i>et al.</i> (2021) Acute cardiovascular effects of controlled exposure to dilute Petrodiesel and biodiesel exhaust in healthy volunteers: a crossover study. <u>Part Fibre Toxicol. 18 (1): 22.</u> 17. Milhau, N. <i>et al.</i> (2020) <i>In vitro.</i> evaluations on canine monocyte-derived dendritic cells of a nanoparticles delivery system for vaccine antigen against <i>Echinococcus granulosus.</i>. <u>PLoS One. 15 (2): e0229121.</u> 18. Uetz-von Allmen, E <i>et al.</i> (2021) CAL-1 as Cellular Model System to Study CCR7-Guided Human Dendritic Cell Migration. <u>Front Immunol. 12: 702453.</u>
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1590PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:RPE (MCA929PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio	-rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419673:230616'

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