

Datasheet: MCA1590A488

Specificity:CD40Format:ALEXA FLUOR® 488Product Type:Monoclonal AntibodyClone:LOB7/6Isotype:IgG2aQuantity:100 TESTS/1ml	Description:	cription: MOUSE ANTI HUMAN CD40:Alexa Fluor® 4			
Product Type:Monoclonal AntibodyClone:LOB7/6Isotype:IgG2a	Specificity:	CD40			
Clone:LOB7/6Isotype:IgG2a	Format:	ALEXA FLUOR® 488			
Isotype: IgG2a	Product Type:	Monoclonal Antibody			
	Clone:	LOB7/6			
Quantity: 100 TESTS/1ml	lsotype:	lgG2a			
	Quantity:	100 TESTS/1ml			

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-rad-antibodies.com/protocols</u> .							
	Yes No Not Determined Suggested Dilution							
	Flow Cytometry	• • • • • • • • • •	acted for	una in a nauticular tao	Neat - 1/10			
	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	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 Alexa Fluor® 488 - liquid							
Max Ex/Em	Fluorophore	Excitation M	lax (nm)	Emission Max (nm)				
	Alexa Fluor®488	495		519				
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant							
Buffer Solution	Phosphate buffered sa	lline						
Preservative Stabilisers	0.09% Sodium Azide							

	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	CD40 Ig(Fc) fusion protein containing the EC region of human CD40 and Fc region of human IgG.
External Database Links	UniProt: <u>P25942</u> <u>Related reagents</u> Entrez Gene:
	958 CD40 Related reagents
Synonyms	TNFRSF5
RRID	AB_566750
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 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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. PLoS ONE. 5: 1-10. Wang, Y.S. <i>et al.</i> (2007) Characterization of canine monocyte-derived dendritic cells with phenotypic and functional differentiation. Can J Vet Res. 71: 165-74. Vlachoyiannopoulos, P.G. <i>et al.</i> (2004) Anti-CD40 antibodies in antiphospholipid syndrome and systemic lupus erythematosus. Thromb Haemost. 92: 1303-11. 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>
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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this
Guarantaa	product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 (MCA929A488)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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-rad.com	Email: antibody_sales_uk@bi	o-rad.com	Email: antibody_sales_de@bio-rad.com

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