

Datasheet: MCA1590SBB700

Description:	MOUSE ANTI HUMAN CD40:StarBright Blue 700
Specificity:	CD40
Format:	StarBright Blue 700
Product Type:	Monoclonal Antibody
Clone:	LOB7/6
Isotype:	lgG2a
Quantity:	100 TESTS/0.5ml

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	-			Neat
	Where this product ha	s not been test	ed for us	e in a particular tech	nnique this does not
	necessarily exclude its use in such procedures. Suggested working dilutions are given a 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 StarBright Blue 700 - liquid				
Max Ex/Em	Fluorophore	Excitation Max	k (nm) E	Emission Max (nm)	
	StarBright Blue 700	473		703	
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant				
Buffer Solution	Phosphate buffered sa	aline			

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20	
Immunogen	CD40 Ig(Fc) fusion protein containing the EC region of human CD40 and F human IgG.	⁻ c region of
External Database Links	UniProt: P25942 Related reagents Entrez Gene: 958 CD40 Related reagents	
Synonyms	TNFRSF5	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mo myeloma cell line.	use NS1
Specificity	 Mouse anti Human CD40 antibody, clone LOB7/6 recognizes the human surface antigen, a 48kDa glycoprotein expressed by B lymphocytes and w monocytes. CD40 is involved in the process of B cell selection in germinal centres and cell-B cell interactions. 	eakly by some
Flow Cytometry	Use 5 μ I of the suggested working dilution to label 10 ⁶ cells in 100 μ I. Best p suggest a 5 minutes centrifugation at 6,000g prior to sample application.	oractices
References	 Quadbeck, B. <i>et al.</i> (2002) Maturation of thyroidal dendritic cells in Grav Scand J Immunol. 55 (6): 612-20. Kirsch, B. M. <i>et al.</i> (2005) The active metabolite of leflunomide, A77 17 with dendritic cell function. <u>Arthritis Res. Ther. 7: R694-R703.</u> Cheadle, E. <i>et al.</i> (2003) <i>Mycobacterium bovis</i> bacillus Calmette-Guerin dendritic cells potently activate autologous T cells via a B7 and interleukin- mechanism. <u>Immunology.108: 79-88.</u> Carpenter, E.L. <i>et al.</i> (2009) Activation of human B cells by the agonist of CP-870,893 and augmentation with simultaneous toll-like receptor 9 stimul Med. 7: 93. Garcia-Nieto, S. <i>et al.</i> (2010) Laminin and Fibronectin Treatment Leads 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 de 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 antiphos syndrome and systemic lupus erythematosus. <u>Thromb Haemost. 92: 1303</u> Leigh, J.E. <i>et al.</i> (2006) Characterization of the immune status of CD8+ 	26, interferes -infected -12-dependent CD40 antibody lation. <u>J Transl</u> to Generation endritic cells spholipid -11.

	 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. Yildırım 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> (2011) Rapamycin conditioning of dendritic cells differentiated from human ES cells promotes a tolerogenic phenotype. J <u>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 <u>Echinococcus granulosus.</u>. <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	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1590SBB700 20471
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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

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