Datasheet: MCA2690GA BATCH NUMBER 166781

Description:	HAMSTER ANTI MOUSE CD3		
Specificity:	CD3		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	145-2C11		
Isotype:	IgG		
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
			1/25 - 1/200
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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	Mouse	
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 (NaN ₃)	

Carrier Free	Yes		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml		
Immunogen	H-2K ^b - specific mouse cytotoxic T lymphocyte clone BM10-37.		
External Database			
Links	UniProt:		
	P22646 Related reagents		
	Entrez Gene:		
	12501 Cd3e Related reagents		
RRID	AB_10672024		
Fusion Partners	Spleen cells from hyperimmunized Armenian hamsters (<i>Cricetulus migratorius</i>) were fused with cells of the murine SP2/0 myeloma.		
Specificity	Hamster anti Mouse CD3 antibody, clone 145-2C11 detects CD3 epsilon (CD3ε), a ~20		
	kDa transmembrane protein also known as CD3 or T3. CD3ε is a member of the CD3		
	complex which consists of four subunits, gamma, delta, epsilon and zeta, and these are		
	associated to the T cell receptor (TCR). TCR plays a critical role in T cell development		
	and function, and is responsible for ligand recognition. It interacts non-covalently with the		
	CD3 dimers delta/epsilon, gamma/epsilon and zeta/zeta which transduce signals from the TCR into the cell.		
	CD3ε is primarily expressed on T cells, NK-T cells, and at different levels on thymocytes		
	during T cell differentiation.		
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	Hamster anti Mouse CD3 antibody, clone 145-2C11 is useful for <i>in vitro</i> blocking and activation assays, as well as apoptosis induction and <i>in vitro</i> T cell depletions.		
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.		
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low		
	affinity Fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).		
References	1. Payer, E. <i>et al.</i> (1991) Circulating CD3+/T cell receptor V y 3+ fetal murine thymocytes		
	home to the skin and give rise to proliferating dendritic epidermal T cells. <u>J Immunol. 146</u>		
	<u>(8): 2536-43.</u>		
	2. Salvadori, S. et al. (1994) Abnormal signal transduction by T cells of mice with parental		
	tumors is not seen in mice bearing IL-2-secreting tumors. <u>J Immunol. 153 (11): 5176-82.</u>		
	3. Lees, C.W. et al. (2008) Analysis of germline GLI1 variation implicates hedgehog		
	signalling in the regulation of intestinal inflammatory pathways. <u>PLoS Med. 5: e239.</u>		
	4. McDole JR <i>et al.</i> (2010) Rapid formation of extended processes and engagement of		
	Theiler's virus-infected neurons by CNS-infiltrating CD8 T cells. <u>Am J Pathol. 177 (4):</u>		
	<u>1823-33.</u>		

	 5. Certo, M. <i>et al.</i> (2015) Activation of RXR/PPARγ underlies neuroprotection by bexarotene in ischemic stroke. <u>Pharmacol Res. 102: 298-307.</u> 6. Klemann, C. <i>et al.</i> (2016) Interleukin 17, Produced by γδδ T Cells, Contributes to Hepatic Inflammation in a Mouse Model of Biliary Atresia and Is Increased in Livers of Patients. <u>Gastroenterology. 150 (1): 229-241.e5.</u> 7. Parang, B. <i>et al.</i> (2016) Myeloid translocation genes differentially regulate colorectal cancer programs. <u>Oncogene. 35 (49): 6341-9.</u> 8. Yu, Y. <i>et al.</i> (2017) Conventional alpha beta (αβ) T cells do not contribute to acute intestinal ischemia-reperfusion injury in mice. <u>PLoS One. 12 (7): e0181326.</u> 9. Schuhmann, M.K. <i>et al.</i> (2017) Blocking of platelet glycoprotein receptor Ib reduces "thrombo-inflammation" in mice with acute ischemic stroke. <u>J Neuroinflammation. 14 (1): 18.</u> 10. Perrotta, M. <i>et al.</i> (2018) Deoxycorticosterone acetate-salt hypertension activates placental growth factor in the spleen to couple sympathetic drive and immune system activation. <u>Cardiovasc Res. 114 (3): 456-67.</u> 11. Recasens, M. <i>et al.</i> (2019) Astrocyte-targeted IL-10 production decreases proliferation and induces a downregulation of activated microglia/macrophages after PPT. <u>Glia. 67 (4):</u>
	 <u>741-58.</u> 12. Ohmura, Y. <i>et al.</i> (2021) Natural Killer T Cells Are Involved in Atherosclerotic Plaque Instability in Apolipoprotein-E Knockout Mice. <u>Int J Mol Sci. 22(22):12451.</u> 13. Möhn, N. <i>et al.</i> (2020) Synthetic retinoid AM80 inhibits IL-17 production of gamma delta T cells and ameliorates biliary atresia in mice. <u>Liver Int. 40 (12): 3031-41.</u> 14. Shanaki-Bavarsad, M. <i>et al.</i> (2022) Astrocyte-targeted Overproduction of IL-10 Reduces Neurodegeneration after TBI. <u>Exp Neurobiol. 31 (3): 173-195.</u> 15. Manich, G. <i>et al.</i> (2024) Chronic IL-6 overproduction induces a tolerogenic response in aged mice after peripheral nerve injury <u>13 Mar [Epub ahead of print].</u>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2690GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...)<u>DyLight®550</u>, <u>DyLight®650</u>, <u>DyLight®800</u>, <u>FITC</u> Goat Anti Hamster IgG (STAR79...) Biotin, FITC, HRP

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL (MCA2356)

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@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 'M384452:210513'

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