

Datasheet: MCA2873FT

Description:	MOUSE ANTI RAT CD80:FITC			
Specificity:	CD80			
Other names:	B7-1			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	3H5			
Isotype:	lgG1			
Quantity:	25 µg			

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 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 product for use in their own system using appropriate negative/positive controls.						
Target Species	Rat						
Product Form	Purified IgG conjugate	ed to Fluoresce	in Isoth	iocyanate Isomer 1	(FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared supernatant	by affinity chro	omatogr	aphy on Protein G fi	rom tissue culture		
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.1mg/ml						

Immunogen	HTLV-1 transformed Lewis-S1 cells.
External Database Links	UniProt: <u>O55202</u> <u>Related reagents</u>
RRID	AB_1720000
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the P3U1 mouse myeloma cell line.
Specificity	Mouse anti Rat CD80, clone 3H5 specifically recognizes rat CD80, otherwise known as B7-1, a type I transmembrane glycoprotein and member of the Ig superfamily, which acts as a ligand for both CD28 and CD152 (CTLA-4), and is primarily expressed on antigen presenting cells (APCs) including dendritic cells.
	CD80 is a B cell activation antigen, which functions in the CD28-CD80/CD86 co-stimulatory pathway vital for T cell activation and proliferation. In contrast, the interaction of CD80 with CD152 has an inhibitory effect on T cell responses. Clone 3H5 has been shown to block the co-stimulatory activity of rat CD80.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	 Maeda, K. <i>et al.</i> (1997) Characterization of rat CD80 and CD86 by molecular cloning and mAb. <u>Int. Immunol. 9: 993-1000.</u> Damoiseaux, J.G. <i>et al.</i> (1998) Costimulatory molecules CD80 and CD86 in the rat; tissue distribution and expression by antigen-presenting cells. <u>J Leukoc Biol. 64 (6):</u> <u>803-9.</u> Kano, M. <i>et al.</i> (1998) A crucial role of host CD80 and CD86 in rat cardiac xenograft rejection in mice. <u>Transplantation. 65: 837-43.</u> Hanabuchi, S. <i>et al.</i> (2000) Development of human T-cell leukemia virus type 1-transformed tumors in rats following suppression of T-cell immunity by CD80 and CD86 blockade. <u>J Virol. 74: 428-35.</u> Tamatani, T. <i>et al.</i> (2000) AlLIM/ICOS: a novel lymphocyte adhesion molecule. <u>Int Immunol. 12: 51-5.</u> Dilek, N. <i>et al.</i> (2012) Control of transplant tolerance and intragraft regulatory T cell localization by myeloid-derived suppressor cells and CCL5. <u>J Immunol. 188: 4209-16.</u> Ghiringhelli, F. <i>et al.</i> (2005) Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferation. <u>J Exp Med.</u> <u>202: 919-29.</u> Sacedón, R. <i>et al.</i> (1999) Glucocorticoid-mediated regulation of thymic dendritic cell function. <u>Int Immunol. 11: 1217-24.</u> Kawai, T. <i>et al.</i> (2000) T(h)1 transmigration anergy: a new concept of endothelial cell-T cell regulatory interaction. <u>Int Immunol. 12: 937-48.</u> Macphee, I.A. <i>et al.</i> (2006) Blockade of OX40-ligand after initial triggering of the T

	 helper 2 response inhibits mercuric chloride-induced autoimmunity. <u>Immunology. 117:</u> <u>402-8.</u> 12. Yrlid, U. <i>et al.</i> (2006) A distinct subset of intestinal dendritic cells responds selectively to oral TLR7/8 stimulation. <u>Eur J Immunol. 36: 2639-48.</u> 13. Fan, C.B. <i>et al.</i> (2015) Alloantigen-specific T-cell hyporesponsiveness induced by dnIKK2 gene-transfected recipient immature dendritic cells. <u>Cell Immunol. 297 (2): 100-7.</u>
Storage	Store at +4°C or at -20°C if preferred.
	Storage in frost-free freezers is not recommended.
	This product should be stored undiluted. This product is photosensitive and should be
	protected from light. Avoid repeated freezing and thawing as this may denature the
	antibody. Should this product contain a precipitate we recommend microcentrifugation
	before use.
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Guarantee	18 months from date of despatch.
Health And Safety	Material Safety Datasheet documentation #10041 available at:
Information	10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

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@b	io-rad.com	Email: antibody_sales_uk@bic	-rad.com	Email: antibody_sales_de@bio-rad.com

From March 15, 2021, we will no longer supply printed datasheets with our products. Look out for updates on how to access your digital version at bio-rad-antibodies.com 'M372647:200709'

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