

Datasheet: MCA1413F BATCH NUMBER 152415

Description:	HAMSTER ANTI MOUSE TCR ALPHA/BETA BETA CHAIN:FITC		
Specificity:	TCR ALPHA/BETA BETA CHAIN		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	H57-597		
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
Flow Cytometry				1/5 - 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 their own system using appropriate negative/positive controls.

Target Species	Mouse				
Product Form	Purified IgG conjug	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer			
ax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	FITC	490	525		
eparation	Purified IgG prepa supernatant	red by affinity chromatog	raphy on Protein G		
fer Solution	Phosphate buffere	d saline			
servative	0.09% Sodium Azi	ide			
Stabilisers	1% Bovine Ser	um Albumin			
pprox. Protein oncentrations	IgG concentration	0.1 mg/ml			

Immunogen	Affinity purified murine T cell receptor.
RRID	AB_322434
Fusion Partners	Spleen cells from immunised Armenian hamsters were fused with cells of the mouse P3X63Ag.653 myeloma cell line.
Specificity	Hamster anti mouse TCR α/β , clone H57-597, recognizes the β-chain of the murine α/β T cell receptor and does not show any reactivity to TCR γ/δ (<u>Gascoigne 1990</u>).
	Clone H57-597 has been reported to activate T-cells in immobilized form (Kubo et al. 1989) and has also been used for <i>in vivo</i> cell depletion (van der Heyde et al., 1995) and Skeen & Ziegler 1993). Removal of sodium azide is recommended prior to using this clone in functional assays.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 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	 Kubo, R.T. <i>et al.</i> (1989) Characterization of a monoclonal antibody which detects all murine alpha beta T cell receptors. <u>J Immunol.</u> 142 (8): 2736-42. Goodman, T. & Lefrancois, L. (1989) Intraepithelial lymphocytes. Anatomical site, not T cell receptor form, dictates phenotype and function. <u>J Exp Med.</u> 170 (5): 1569-81. Gascoigne, N.R. (1990) Transport and secretion of truncated T cell receptor beta-chain occurs in the absence of association with CD3. <u>J Biol Chem.</u> 265 (16): 9296-301. van der Heyde, H.C. <i>et al.</i> (1995) Gamma delta T cells function in cell-mediated immunity to acute blood-stage Plasmodium chabaudi adami malaria. <u>J Immunol.</u> 154 (8): 3985-90. Skeen, M.J. & Ziegler, H.K. (1993) Induction of murine peritoneal gamma/delta T cells and their role in resistance to bacterial infection. <u>J Exp Med.</u> 178 (3): 971-84. Nilsson, I.A. <i>et al.</i> (2011) Evidence of hypothalamic degeneration in the anorectic anx/anx mouse. <u>Glia.</u> 59 (1): 45-57. Lenzen, H. <i>et al.</i> (2012) Downregulation of the NHE3-binding PDZ-adaptor protein PDZK1 expression during cytokine-induced inflammation in interleukin-10-deficient mice. <u>PLoS One.</u> 7 (7): e40657.
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 product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch

Health And Safety
Information

Material Safety Datasheet documentation #10041 available at:
https://www.bio-rad-antibodies.com/SDS/MCA1413F
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:FITC (MCA2356F)

 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365273:200529'

Printed on 19 Jan 2024

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