

Datasheet: MCA1413FB

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:	0.5 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	▪			Neat
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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	Mouse						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
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) 1% bovine serum albumin						
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml						

Immunogen	Affinity purified murine T cell receptor.
RRID	AB_321357
Fusion Partners	Spleen cells from immunized Armenian hamsters were fused with cells of the mouse P3X63Ag.653 myeloma cell line.
Specificity	<p>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 TCRγ/δ (Gascoigne 1990).</p> <p>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.</p>
Flow Cytometry	<p>Use 10μl of the suggested working dilution to label 10⁶ cells in 100μl.</p> <p>The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B).</p>
References	<ol style="list-style-type: none"> 1. Goodman, T. & Lefrancois, L. (1989) Intraepithelial lymphocytes. Anatomical site, not T cell receptor form, dictates phenotype and function. J Exp Med. 170 (5): 1569-81. 2. Gascoigne, N.R. (1990) Transport and secretion of truncated T cell receptor beta-chain occurs in the absence of association with CD3. J Biol Chem. 265 (16): 9296-301. 3. Skeen, M.J. & Ziegler, H.K. (1993) Induction of murine peritoneal gamma/delta T cells and their role in resistance to bacterial infection. J Exp Med. 178 (3): 971-84. 4. 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. J Immunol. 154 (8): 3985-90. 5. Nilsson, I.A. <i>et al.</i> (2011) Evidence of hypothalamic degeneration in the anorectic anx/anx mouse. Glia. 59 (1): 45-57.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
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/MCA1413FB 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

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

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

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