

Datasheet: MCA1413

Description:	HAMSTER ANTI MOUSE TCR ALPHA/BETA BETA CHAIN
Specificity:	TCR ALPHA/BETA BETA CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	H57-597
Isotype:	IgG
Quantity:	0.25 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	■			0.2-1ug/10 ⁶ cells
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Affinity purified murine T cell receptor.
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, recognises the β-chain of the murine α/β T cell receptor and does not show any reactivity to TCRγ/δ (Gascoigne, N., 1990). Clone H57-597 has been reported to activate T-cells in immobilised form (Kubo, R. et al., 1989) and has also been used for <i>in vivo</i> cell depletion (van der Heyde, H. et al., 1995 and Skeen, M. & Ziegler, H., 1993). Removal of sodium azide is recommended prior to using this clone in functional assays. Bio-Rad recommend the Slide-A-Lyzer® Dialysis Cassette for this purpose.
References	1. Kubo, R.T. <i>et al.</i> (1989) Characterization of a monoclonal antibody which detects all murine alpha beta T cell receptors. J Immunol. 142 (8): 2736-42. 2. 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. 3. 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. 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. 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. 6. Nilsson, I.A. <i>et al.</i> (2011) Evidence of hypothalamic degeneration in the anorectic anx/anx mouse. Glia. 59 (1): 45-57. 7. 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. PLoS One. 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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

'M315270:180503'

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