

Datasheet: MCA6078F

Description:	RAT ANTI MOUSE MHC CLASS II I-A/I-E:FITC
Specificity:	MHC CLASS II I-A/I-E
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	M5/114.15.2
Isotype:	lgG2b
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	•			1/20

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) - liq				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	FITC	490	525		
Preparation	Purified IgG prepa	ared by affinity chromatog	raphy		
Buffer Solution	Phosphate buffere	ed saline			
Preservative Stabilisers	<0.1% Sodium Az	ide (NaN ₃)			
Approx. Protein Concentrations	lgG concentration	0.5 mg/ml			
Immunogen	Activated C57BL/0	6 mouse spleen cells.			

External Database Links	UniProt: Q31161 Related reagents			
Fusion Partners	Immunized (BN x Lewis)F ₁ rat spleen cells were fused with the NS1 myeloma cell line.			
Specificity	Rat anti Mouse MHC class II I-A/I-E antibody, clone M5/114.15.2 recognizes a polymorphic determinant shared by the mouse I-Ab/d/q and I-Ed/k MHC class II alloantigens expressed by mice of the H-2p/r/q/b/d/u haplotypes. This antibody does not recognize the I-Af/k/s MHC class II alloantigens.			
	The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the histocompatibility 2 (H-2) region. MHC class II molecules are expressed by dendritic cells, B-cells and macrophages.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul			
References	 Anderson, M.S. & Miller, J. (1992) Invariant chain can function as a chaperone protein for class II major histocompatibility complex molecules. Proc Natl Acad Sci U S A. 89 (6): 2282-6. Miyazaki, T. et al. (1996) Mice lacking H2-M complexes, enigmatic elements of the MHC class II peptide-loading pathway. Cell. 84 (4): 531-41. Curtsinger JM et al. (1999) Inflammatory cytokines provide a third signal for activation of naive CD4+ and CD8+ T cells. J Immunol. 162 (6): 3256-62. Tan, C.S.E. et al. (2017) CD8+ T cell evasion mandates CD4+ T cell control of chronic gamma-herpesvirus infection. PLoS Pathog. 13 (4): e1006311. Lawler, C. & Stevenson, P.G. (2019) A CD4+ T cell/NK cell axis of γ-herpesvirus contro J Virol. Nov 06 [Epub ahead of print]. 			
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6078F 10040			
Regulatory	For research purposes only			

 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 'M434204:250128'

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