Datasheet: MCA6078GA

BATCH NUMBER 180208

Description:	RAT ANTI MOUSE MHC CLASS II I-A/I-E
Specificity:	MHC CLASS II I-A/I-E
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	M5/114.15.2
Isotype:	IgG2b
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 - liquid
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Activated C57BL/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	1. 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. 2. 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. 3. 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. 4. 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. 5. Lawler, C. & Stevenson, P.G. (2019) A $CD4^+$ T cell/NK cell axis of γ-herpesvirus control. J Virol. Nov 06 [Epub ahead of print].
Storage	Store at +4ºC. DO NOT FREEZE. This product should be stored undiluted. 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/MCA6078GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC

Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550, DyLight®650, DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin

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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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