## #55413 Store at +4C

## MHC Class II (I-A/I-E) (M5/114.15.2) Rat mAb (APC-Cy7<sup>®</sup> Conjugate)



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-L	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rat IgG2b kappa	<b>UniProt ID:</b> #P18468, #P06342, #Q3U060, #P14435	Entrez-Gene Id: 14969, 14961, 381091, 14960	
Product Usage Information		For optimal flow cytometry results, we recommend 0.5 $\mu$ g of antibody per test. A slight precipitate may be present, but will not interfere with antibody performance. If precipitates are present, centrifuge the tube at 6,000xg for 10-30 sec. Draw off the supernatant and place into a light protective vial.				
		Application Flow Cytometry (Live)			<b>Dilution</b> 1:40	
Storage		Supplied in 10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH 7.2. This product is stable for 6 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensit	tivity	MHC Class II (I-A/I-E) (M5/114.15.2) Rat mAb (APC-Cy7 <sup>®</sup> Conjugate) recognizes endogenous levels of total MHC class II (I-A/I-E) proteins. This antibody detects epitopes within the extracellular domain of MHC class II (I-A/I-E).				
Source / Purifica	tion	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.				
Description		This Cell Signaling Technology antibody is conjugated to APC-Cy7 <sup>®</sup> and tested in-house for direct flow cytometry analysis in mouse cells.				
Background		glycoproteins expressed cells, and B cells. Express Prior to being displayed of peptide antigens approxi extracellular proteins dig required for T cell activati the MHC class II protein of HLAs corresponding to M The M5/114.15.2 antibod glycoproteins (I-Ab, I-Ad, present on B cells, mono carrying the H-2b, H-2d, H	on the surface of antig ion can also be induce on the cell membrane, mately 15-24 amino ac ested in the lysosome ion during the immune complex is encoded by IHC class II are HLA-DP y reacts with mouse M I-Aq, I-Ed, I-Ek, not I-Af cytes, macrophages, de H-2q, H-2p, H-2r and H e M5/114 mAb is report	en-presenting cells, such d on other cell types thro MHC class II molecules a ids in length that were d (2). Antigen-presentation e response to extracellula the human leukocyte an ; HLA-DM, HLA-DOA, HLA HC class II, both I-A and f, I-Ak, or I-As). It detects endritic cells, and activate -2u haplotypes, but not f ted to inhibit I-A-restricted	through MHC class II is ar pathogens (2). In humans, tigen gene complex (HLA). -DOB, HLA-DQ, and HLA-DR (3).	
Background Refe	erences	1. Ting, J.P. and Trowsdale 2. Cresswell, P. (1994) <i>Ani</i> 3. Karp, D.R. et al. (1990) 4. Staehli, F. et al. (2012) <i>J</i> 5. Scarlett, U.K. et al. (201 6. Anderson, M.S. and Mi 7. Miyazaki, T. et al. (1996 8. Parra, D. et al. (2012) <i>J</i> 9. Chen, M. et al. (2011) <i>J</i>	nu Rev Immunol 12, 25 J Exp Med 171, 615-28. I Immunol 188, 3820-8. 2) J Exp Med 209, 495- Iller, J. (1992) Proc Natl J 5) Cell 84, 531-41. Leukoc Biol 91, 525-36.	9-93. 506. A <i>cad Sci U S A</i> 89, 2282-6.		
Species Reactivit	у	Species reactivity is deter	mined by testing in at	least one approved appli	cation (e.g., western blot).	
Applications Key		FC-L: Flow Cytometry (Liv	e)			

Cross-Reactivity Key	M: Mouse			
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