

Product datasheet for TA386132

MHC II Rabbit Monoclonal Antibody [Clone ID: P7/7]

Product data:

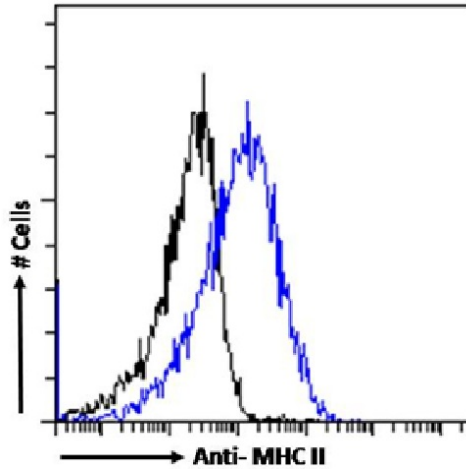
Product Type:	Primary Antibodies
Clone Name:	P7/7
Applications:	FC, IHC, IP
Reactivity:	Rat, Mouse
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was raised by immunising DA rats with PVG.R8 rat spleen cells. Splenocytes from immunised rats were then isolated, and fused to the myeloma line NSO/u to generate stable hybridomas.
Specificity:	<p>This antibody recognises the rat RT1Bu/Du MHC class II antigen, and cross-reacts with haplotypes c, d, l and n. This antibody stains MHC class II molecules in a number of rat strains, including PVG, F334, LEW, and BN. However, this antibody is not reactive with RT1a haplotype rats, including Wistar rats. This antibody also cross-reacts with murine I-A and I-E molecules of all haplotypes tested, including H-2b, d, f and k, so can be used in all mouse strains.</p> <p>This antibody reacts with murine MHC class II I-A and I-E molecules, as confirmed by two-dimensional gel electrophoresis of Ia immunoprecipitates from metabolically labelled murine lymphoma cells (Momburg et al, 1986). Cross-blocking studies with anti-Ia β-chain MAbs indicate that P7/7 binds to the β-chain of murine Ia (Momburg et al, 1986). This antibody has been used to stain acetone-fixed mouse pancreas sections to study lymphocyte infiltration (Signore et al, 1987; Signore et al, 1989) and ethanol-fixed mouse brain sections (McMenamin et al, 1998). In flow cytometric analysis, this antibody has been employed to identify MHC class II-expressing murine cells (Hayball & Lake, 2004; Heath et al, 1991), and to analyse the surface phenotype of murine N9 microglial cells (Dimayuga et al, 2005). This antibody has been used in immunofluorescence analysis of acetone-fixed thymus sections to identify MHC-II positive and negative medullae (Aschenbrenner et al, 2007).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific



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Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Note:	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Product images:



Flow-cytometry using the anti-MHC II antibody P7/7 (TA386132). Mouse splenocytes were stained with anti-Fluorescein IgG antibody (clone 4-4-20; isotype control, black line) or the rabbit IgG1 version of P7/7 (TA386132, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-mouse IgG AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.