

Rabbit anti-Rat, Mouse MHC II Monoclonal Antibody | anti-MHCII antibody

Anti-MHC II [P7/7]

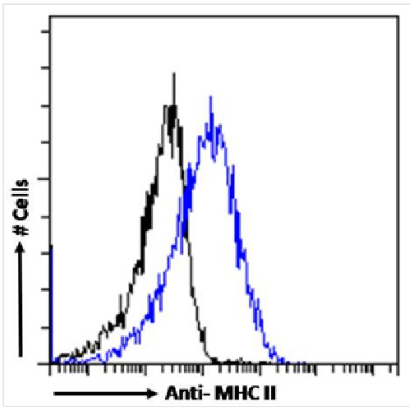
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72094	Rabbit	Rat, Mouse	Flow Cytometry, Functional Assay, Immunoprecipitation, Immunohistochemistry

PRODUCT SYNONYMS

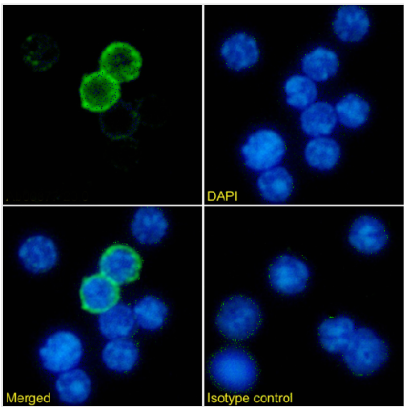
MHC II; Monoclonal Antibody; Anti-MHC II [P7/7]; P7.7; I-A; Ia; I-E; MHC-II; MHC Class II; anti-MHCII antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	P7/7
Specificity	This antibody recognizes 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.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MHCII antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), IHC (Immunohistochemistry)
Chimeric Use Statement	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.
PMID	3079804
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-MHC II antibody P7/7 (AAA72094). Mouse splenocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG1 version of P7/7 (, 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.



IF (Immunofluorescence)
Immunofluorescence staining of mouse splenocytes using anti-MHC II antibody (AAA72094) P7/7. Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes immobilized on Shi-fix cover-slips and stained with the chimeric rabbit IgG version of P7/7 () at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining in a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MHCII antibody	Recombinant monoclonal antibody to MHC II. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma P7/7. 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.
References	Momburg et al Differential expression of Ia and Ia-associated invariant chain in mouse tissues after in vivo treatment with IFN-gamma. J Immunol February 1, 1986, 136 (3) 940-948 Note on publication: Describes the original generation and characterisation of this antibody.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.