Rat anti-Mouse MHC Class II Monoclonal Antibody | anti-MHCClassII antibody

Anti-Mouse MHC Class II In Vivo Antibody - Low Endotoxin (M5/114.15.2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA197041	**Rat**	**Mouse**	**Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

MHC Class II; Monoclonal Antibody; Anti-Mouse MHC Class II In Vivo Antibody - Low Endotoxin (M5/114.15.2); I-A/I-E MHC class II; anti-MHCClassII antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2b
Clone Number	M5/114.15.2
Specificity	Clone M5/114.15.2 recognizes an epitope on the mouse MHC class II molecules I-Ab, I-Ad, I-Aq, I-Ed, and I-Ek. Clone M5/114.15.2 does not react with I-Af, I-Ak, or I-As.
Purity/Purification	>95% by SDS-PAGE and HPLC This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.
Form/Format	This M5/114.15.2 in vivo antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free.
Concentration	>2.0 mg/ml (varies by lot)
Applicable Applications for anti-MHCClassII antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), Blocking
Endotoxin	$\leq$1.0 EU/mg as determined by the LAL method
Immunogen	C57BL/6 Spleen Cells
Aggregation	Aggregation level $\leq$ 5%
Antigen Distribution	I-Ab/d/q and I-Ed/k are expressed on antigen-presenting cells, including macrophages, monocytes, DCs, and B cells, and activated T cells from mice of the I-Ab/d/q and I-Ed/k haplotypes.
Preparation and Storage	This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for anti-MHCClassII antibody	MHC class II antibody, clone M5/114.15.2, recognizes the major histocompatibility complex (MHC) class II molecules I-Ab, I-Ad, I-Aq, I-Ed, and I-Ek. MHC class II is constitutively expressed on professional antigen-presenting cells (APCs), including macrophages/monocytes, dendritic cells (DCs), and B cells, and is induced on T cells upon activation. MHC class II consists of two transmembrane proteins, a 35 kDa alpha (heavy) chain and 29 kDa beta (light) chain. The N-terminal alpha1 and beta1 domains form the antigen-binding groove, which binds 13-25 aa peptides derived from exogenous antigens. On APCs, MHC class II plays a critical role in the adaptive immune response by presenting phagocytosed antigens to helper CD4 T cells. The T cell receptor (TCR)/CD3 complex of CD4 T cells interacts with peptide-MHC class II, which induces CD4 T cell activation leading to the coordination and regulation of other effector cells. CD4 molecules also bind to MHC class II, which helps augment TCR signaling. It has also been demonstrated that MHC class II express on activated T cells are capable of antigen presentation and can transduce signals into T cells, enhancing T cell proliferation and activity.
Product Categories/Family for anti-MHCClassII antibody	Low Endotoxin; anti-mouse

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.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/mhc-class-ii-antibody-clone-m5-114-15-2-immunoprecipitation-immunohistochemistry-flow-cytometry-elisa/197041