

For Research Use Only

Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rat IgG2a Recombinant Antibody

Catalog Number: 65663-1-TR



Basic Information

Catalog Number:

65663-1-TR

Concentration:

100ug, 1000 µg/ml

Source:

Rat

Isotype:

IgG2a

GenBank Accession Number:

BC031711

GeneID (NCBI):

14960

Full Name:

histocompatibility 2, class II antigen

A, alpha

Purification Method:

Protein A purification

CloneNo.:

M5/114.15.2

Applications

Tested Applications:

FC

Species Specificity:

mouse

Background Information

Major histocompatibility complex (MHC) class II molecules are heterodimeric transmembrane glycoproteins that are expressed on the surface of antigen-presenting cells such as dendritic cells, macrophages, and B cells. The M5/114.15.2 antibody detects polymorphic determinants present on B cells, monocytes, macrophages, dendritic cells, and activated T lymphocytes from mice carrying the H-2b, H-2d, H-2q, H-2p, H-2r and H-2u haplotypes but not from mice carrying the H-2s or H-2f haplotypes (PMID: 6170707). This antibody recognizes both I-A and I-E subregion-encoded Ia glycoproteins (I-Ab, I-Ad, I-Aq, I-Ed, I-Ek, not I-Af, I-Ak, or I-As). M5/114 antibody is reported to inhibit I-A subregion-restricted T cell responses of the H-2b, H-2d, H-2q, H-2u but not the H-2f, H-2k, H-2s haplotypes (PMID: 6173436).

Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

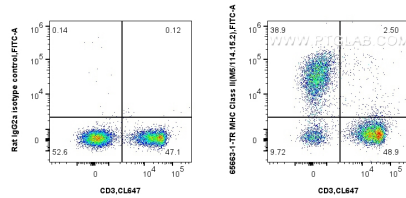
T: 4006900926

E: Proteintech-CN@ptglab.com

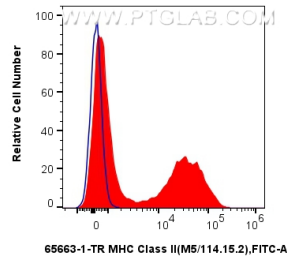
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Selected Validation Data



1x10⁶ mouse splenocytes were surface stained with 0.5 ug Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rat IgG2a RecAb (65663-1-TR, Clone: M5/114.15.2) or Rat IgG2a Isotype Control (2A3) (65209-1-Ig, Clone: 2A3), and FITC anti-Rat IgG2a antibody. Cells were then stained with CoraLite® Plus 647 Anti-Mouse CD3 ε (145-2C11) (CL647-65060, Clone: 145-2C11). Cells were not fixed.



1x10⁶ mouse splenocytes were surface stained with 0.5 ug Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rat IgG2a RecAb (65663-1-TR, Clone: M5/114.15.2) (red) or Rat IgG2a Isotype Control (2A3) (65209-1-Ig, Clone: 2A3) (blue), and FITC anti-Rat IgG2a antibody. Cells were not fixed.