

For Research Use Only

# FcZero-rAb™ PerCP-Cyanine5.5 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG Recombinant Antibody



Catalog Number: CPY5-FcA65663  
Basic Information

Catalog Number:  
CPY5-FcA65663

Concentration:  
100ug, 200 ug/ml

Source:  
Rabbit

Isotype:  
IgG

GenBank Accession Number:  
BC031711

GeneID (NCBI):  
14960

UNIPROT ID:  
P14434

Full Name:  
histocompatibility 2, class II antigen  
A, alpha

Purification Method:  
Protein A purification

CloneNo.:  
M5/114.15.2

Recommended Dilutions:  
FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl  
suspension

Excitation/Emission maxima  
wavelengths:  
482 nm / 690nm

## Applications

Tested Applications:  
FC

Species Specificity:  
mouse

Positive Controls:

FC : mouse splenocytes,

## 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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

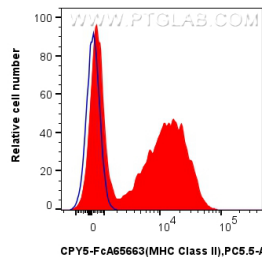
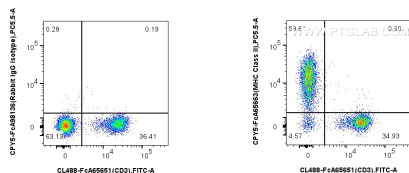
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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with FcZero-rAb™ CoraLite® Plus 488 Anti-Mouse CD3e, and 0.25 ug PerCP-Cyanine5.5 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (CPY5-FcA65663, Clone: M5/114.15.2) or 0.25 ug FcZero-rAb™ PerCP-Cyanine5.5 Rabbit IgG Isotype Control Recombinant Antibody (CPY5-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Human/Mouse Fc blocking Reagent (PF00029) prior to staining.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug PerCP-Cyanine5.5 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (CPY5-FcA65663, Clone: M5/114.15.2) (red) or 0.25 ug FcZero-rAb™ PerCP-Cyanine5.5 Rabbit IgG Isotype Control Recombinant Antibody (CPY5-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Human/Mouse Fc blocking Reagent (PF00029) prior to staining. Cells were not fixed.