FcZero-rAb™ PE Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG Recombinant Antibody

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Antibodies | ELISA kits | Proteins
FcZero-rAb
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Catalog Number: PE-FcA65663

Basic Information

Catalog Number:
PE-FcA65663

Size:
100ug , 200 μg/ml

Source:
Rabbit

Isotype:
IgG

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

Recommended Dilutions:
FC: 0.1 ug per 10^6 cells in a 100 μl suspension

Excitation/Emission maxima wavelengths:
496 nm, 565 nm / 578 nm

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℃. Avoid exposure to light. Stable for one year after shipment.
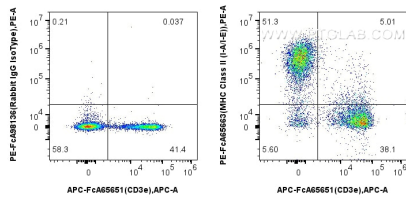**Storage Buffer:**
PBS with 0.09% sodium azide, pH7.3

Selected Validation Data

1x10^6 mouse splenocytes were surface stained with APC Anti-Mouse CD3e (145-2C11), and 0.1 ug PE Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (PE-FcA65663, Clone: M5/114.15.2) or 0.1 ug PE Rabbit IgG Isotype Control RecAb (PE-FcA98136, Clone: 240953C9). Cells were not fixed.