

For Research Use Only

FcZero-rAb™ PE-Cyanine7 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG Recombinant Antibody

Catalog Number: PY7-FcA65663



Basic Information

Catalog Number: PY7-FcA65663	GenBank Accession Number: BC031711	Purification Method: Protein A purification
Size: 100ug , 200 ug/ml	GeneID (NCBI): 14960	CloneNo.: M5/114.15.2
Source: Rabbit	UNIPROT ID: P14434	Recommended Dilutions: FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: histocompatibility 2, class II antigen A, alpha	Excitation/Emission maxima wavelengths: 450-500 nm / 778 nm

Applications

Tested Applications: FC	Positive Controls: FC : mouse splenocytes,
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).

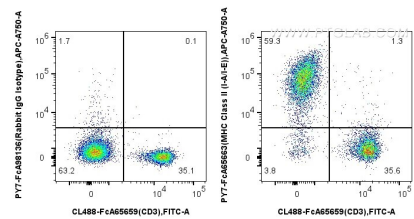
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

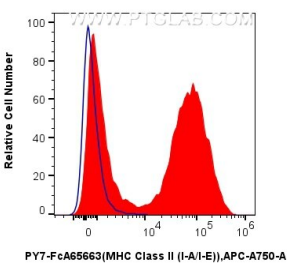
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ mouse splenocytes were surface stained with FcZero-rAb™ CoraLite® Plus 488 Anti-Mouse CD3 (17A2), and 0.25 ug PE-Cyanine7 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (PY7-FcA65663, Clone: M5/114.15.2) or FcZero-rAb™ PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining.



1x10⁶ mouse splenocytes were surface stained with 0.25 ug PE-Cyanine7 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (PY7-FcA65663, Clone: M5/114.15.2) (red) or FcZero-rAb™ PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.