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# PE Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2)



Catalog Number: PE-65122

1 Publications

## Basic Information

<b>Catalog Number:</b> PE-65122	<b>GenBank Accession Number:</b> BC031711	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.2 mg/ml	<b>GeneID (NCBI):</b> 14960	<b>CloneNo.:</b> M5/114.15.2
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P14434	<b>Excitation/Emission maxima wavelengths:</b> 496 nm, 565 nm / 578 nm
<b>Isotype:</b> IgG2b, kappa	<b>Full Name:</b> histocompatibility 2, class II antigen A, alpha	

## Applications

**Tested Applications:**  
FC

**Cited Applications:**  
FC

**Species Specificity:**  
Mouse

**Cited Species:**  
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 mAb 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhuo Cheng	37544392	Acta Biomater	FC

## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.1% sodium azide and 0.5% BSA.

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

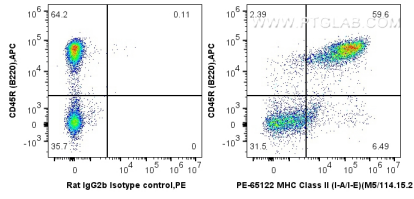
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## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface co-stained with APC Anti-Mouse CD45R (B220) and 0.2 ug PE Anti-Mouse MHC Class II (I-A/I-E) (PE-65122, Clone: M5/114.15.2) or 0.2 ug Isotype Control. Cells were not fixed.