

For Research Use Only

# CoraLite® Plus 647 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2)



Catalog Number: **CL647-65122** 2 Publications

## Basic Information

<b>Catalog Number:</b> CL647-65122	<b>GenBank Accession Number:</b> BC031711	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 14960	<b>CloneNo.:</b> M5/114.15.2
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P14434	<b>Recommended Dilutions:</b> IF 1:200-1:800
<b>Isotype:</b> IgG2b, kappa	<b>Full Name:</b> histocompatibility 2, class II antigen A, alpha	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm

## Applications

<b>Tested Applications:</b> FC, IF/ICC	<b>Positive Controls:</b> IF : mouse splenocytes,
<b>Cited Applications:</b> IF, FC	
<b>Species Specificity:</b> Mouse	
<b>Cited Species:</b> 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
Natalia Sauer	37895833	Pharmaceuticals (Basel)	IF
Luqiu Feng	36918933	Vet Res	FC

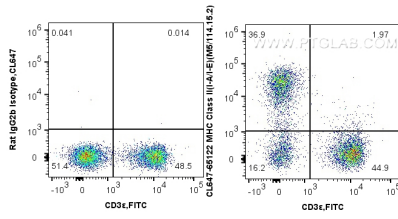
## Storage

**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, pH 7.3.

For technical support and original validation data for this product please contact:  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



1X10<sup>6</sup> BALB/c mouse splenocytes were surface stained with CoraLite® 488 Anti-Mouse CD3 (CL488-65077, Clone: 17A2) and 0.25 ug CoraLite® Plus 647 Anti-Mouse MHC Class II (I-A/I-E) (CL647-65122, Clone: M5/114.15.2) or CoraLite® Plus 647-Conjugated rat IgG2b isotype control. Cells were not fixed.



Immunofluorescent analysis of mouse splenocytes using CoraLite® Plus 647-conjugated Anti-Mouse MHC Class II (I-A/I-E) (CL647-65122, Clone: M5/114.15.2) at dilution of 1:400.