

# CoraLite® Plus 405 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2)

Catalog Number: **CL405-65122**

## Basic Information

**Catalog Number:**

CL405-65122

**Size:**

100ug, 0.5 mg/ml

**Source:**

Rat

**Isotype:**

IgG2b, kappa

**GenBank Accession Number:**

BC031711

**GeneID (NCBI):**

14960

**UNIPROT ID:**

P14434

**Full Name:**

histocompatibility 2, class II antigen A, alpha

**Purification Method:**

Affinity purification

**CloneNo.:**

M5/114.15.2

**Excitation/Emission maxima wavelengths:**

399 nm / 422 nm

## Applications

**Tested Applications:**

FC

**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 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).

## Storage

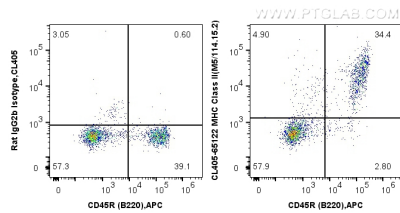
**Storage:**

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

**Storage Buffer:**

PBS with 0.09% sodium azide.

## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface co-stained with APC Anti-Mouse CD45R (B220) and 0.5 ug CoraLite® Plus 405 Anti-Mouse MHC Class II (I-A/I-E) (CL405-65122, Clone:M5/114.15.2) or 0.5 ug Control Antibody. Cells were not fixed.