For Research Use Only

APC Anti-Mouse MHC Class II (I-A/I-E) proteintech (M5/114.15.2)



Purification Method:

Affinity purification

Excitation/Emission maxima

CloneNo.:

M5/114.15.2

wavelengths: 650 nm / 660 nm

Catalog Number: APC-65122

1 Publications

Basic Information

Catalog Number: APC-65122

100ug, 0.1 mg/ml

Source:

Isotype:

IgG2b, kappa

GenBank Accession Number:

BC031711 GeneID (NCBI): 14960

UNIPROT ID: P14434 Full Name:

histocompatibility 2, class II antigen

A, alpha

Applications

Tested Applications:

Cited Applications:

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-Ad, 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 FC Chuyu Xi 38201837 **Nutrients**

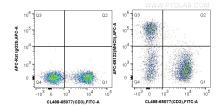
Storage

Storage:

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

Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

Selected Validation Data



1X10^6 BALB/c mouse splenocytes were surface stained with CoraLite® 488 Anti-Mouse CD3 (CL488-65077, Clone: 17A2) and 0.06 ug APC-rat IgG2b isotype control (left) or 0.06 ug APC Anti-Mouse MHC Class II (I-A/I-E) (APC-65122, Clone:M5/114.15.2). Cells were not fixed.