

For Research Use Only

CoraLite® Plus 488 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2)



Catalog Number: **CL488-65122**

Basic Information

Catalog Number: CL488-65122	GenBank Accession Number: BC031711	Purification Method: Affinity purification
Size: 100ug , 500 µg/ml	GeneID (NCBI): 14960	CloneNo.: M5/114.15.2
Source: Rat	UNIPROT ID: P14434	Recommended Dilutions: IF/ICC 1:200-1:800
Isotype: IgG2b, kappa	Full Name: histocompatibility 2, class II antigen A, alpha	Excitation/Emission maxima wavelengths: 493 nm / 522 nm

Applications

Tested Applications: IF/ICC, FC	Positive Controls: IF/ICC : 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 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).

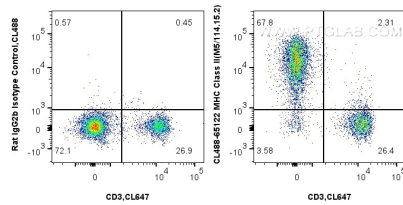
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

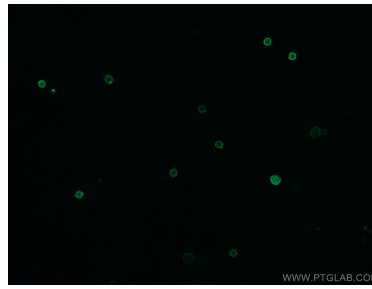
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 488 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) (CL488-65122, Clone: M5/114.15.2), or 0.25 ug CoraLite® Plus 488 Rat IgG2b Isotype Control (LTF-2) (CL488-65211, Clone: LTF-2). Cells were co-stained with 0.25 ug CoraLite® Plus 647 Anti-Mouse CD3 (17A2) (CL647-65077, Clone: 17A2). Cells were not fixed.



Immunofluorescent analysis of mouse splenocytes using CoraLite® Plus 488-conjugated Anti-Mouse MHC Class II (I-A/I-E) (CL488-65122, Clone: M5/114.15.2) at dilution of 1:400.