

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

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

Applications

Tested Applications: FC, IF	Positive Controls: IF : mouse splenocytes,
Cited Applications: FC, IF	
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
Natalia Sauer	37895833	Pharmaceuticals (Basel)	IF
Luqiu Feng	36918933	Vet Res	FC

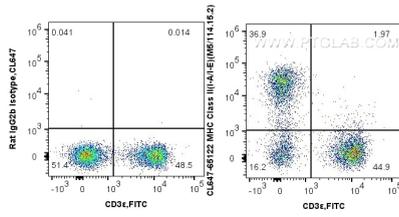
Storage

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.

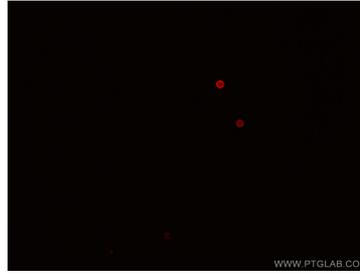
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ 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.