

For Research Use Only

FITC Plus Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2)

Catalog Number: FITC-65122

3 Publications



Basic Information

Catalog Number: FITC-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	UNIPROT ID: P14434	Excitation/Emission maxima wavelengths: 495 nm / 524 nm
Isotype: IgG2b, kappa	Full Name: histocompatibility 2, class II antigen A, alpha	

Applications

Tested Applications:
FC

Cited Applications:
FC

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
Hongping Wan	38888501	Adv Healthc Mater	FC
Kai Deng	38852736	Int J Biol Macromol	FC
Ling Huang	37236192	Cell Chem Biol	FC

Storage

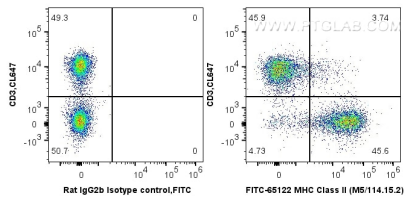
Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 0.09% sodium azide.

For technical support and original validation data for this product please contact:
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Selected Validation Data



1×10^6 mouse splenocytes were surface co-stained with Coralite® Plus 647-conjugated Anti-Mouse CD3 and 0.5 μ g FITC Anti-Mouse MHC Class II (I-A/I-E) (FITC-65122, Clone: M5/114.15.2) or 0.5 μ g Isotype Control. Cells were not fixed.