

For Research Use Only

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

Catalog Number: PE-65122

3 Publications



Basic Information

Catalog Number:

PE-65122

Concentration:

100ug, 0.2 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:

496 nm, 565 nm / 578 nm

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
Ziying Feng	39532019	Int Immunopharmacol	FC
Jiale Tian	39479459	Theranostics	
Zhuo Cheng	37544392	Acta Biomater	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 and 0.5% BSA, pH7.3

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

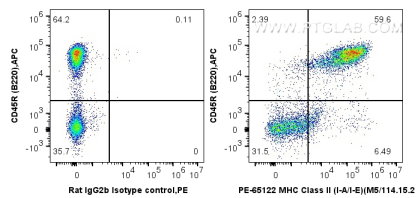
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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 co-stained with APC Anti-Mouse CD45R (B220) and 0.2 ug PE Anti-Mouse MHC Class II (I-A/I-E) (PE-65122, Clone: M5/114.15.2) or 0.2 ug Isotype Control. Cells were not fixed.