

For Research Use Only

FcZero-rAb™ CoraLite®594 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG Recombinant Antibody

Catalog Number: CL594-FcA65663



Basic Information

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|-------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Catalog Number: CL594-FcA65663 | GenBank Accession Number: BC031711 | Purification Method: Protein A purification |
| Concentration: 100ug, 500 ug/ml | GeneID (NCBI): 14960 | CloneNo.: M5/114.15.2 |
| Source: Rabbit | UNIPROT ID: P14434 | Recommended Dilutions: FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension |
| Isotype: IgG | Full Name: histocompatibility 2, class II antigen A, alpha | Excitation/Emission maxima wavelengths: 588 nm / 604 nm |

Applications

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|--------------------------------------|------------------------------------------------------|
| Tested Applications: FC | Positive Controls: FC : 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 antibody 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 0.09% sodium azide, pH7.3

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

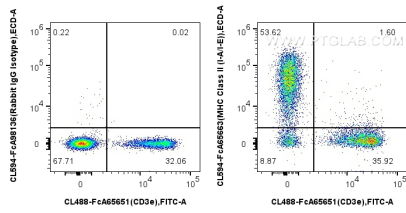
T: 4006900926

E: Proteintech-CN@ptglab.com

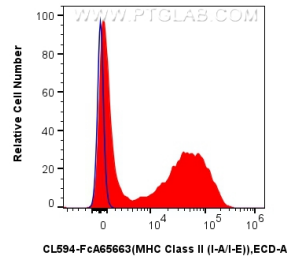
W: ptgcn.com

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Selected Validation Data



1x10⁶ mouse splenocytes were surface stained with FcZero-rAb™ CoraLite® Plus 488 Anti-Mouse CD3e (145-2C11), and 0.25 ug CoraLite®594 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (CL594-FcA65663, Clone: M5/114.15.2) or CoraLite®594 Rabbit IgG Isotype Control RecAb (CL594-FcA98136, Clone: 240953C9). Cells were not fixed.



1x10⁶ mouse splenocytes were surface stained with 0.25 ug CoraLite®594 Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2) Rabbit IgG RecAb (CL594-FcA65663, Clone: M5/114.15.2) (red) or CoraLite®594 Rabbit IgG Isotype Control RecAb (CL594-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.