

TECHNICAL DATA SHEET

CyFlow™ MHCII Azide Free Anti-Ms; Clone M5/114

REF CF769709

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	MHC Class II
Alternative Names	—
Clone	M5/114
Clonality	monoclonal
Format	Azide Free
Host / Isotype	Rat / IgG2b
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Activated C57BL/6 mouse spleen cells

Specificity

The rat monoclonal antibody M5/114 recognizes mouse MHC class II glycoproteins (MHCII). It recognizes a shared determinant on I-Ab, I-Ad, I-Aq, and I-Ed, I-Ek alloantigens, but it does not react with I-Af, I-Ak,

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I-As. This antibody can inhibit I-A-restricted T cell responses of the H-2b, H-2d, H-2q, H-2u but not H-2f, H-2k, H-2s haplotypes.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH $\approx$ 7.4; 0.2 μ m filter sterilized.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

MHC (major histocompatibility complex) class II (MHCII) molecules are transmembrane glycoproteins expressed on the surface of professional antigen-presenting cells, such as macrophages, dendritic cells and B cells. Before their exposition on the cell surface, the MHC class II molecules react with endocytosed exogenous antigens, which are then presented to the T cells. The antigen-binding groove between MHC class II α and β chain is open at both ends and is 15-24 amino acid residues long.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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