

TECHNICAL DATA SHEET

CyFlow™ HLA-Class I Purified Anti-Hu; Clone MEM-81

REF BY003346

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	HLA-Class I
Alternative Names	—
Clone	MEM-81
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Leukocytes of a patient suffering from LGL-type Leukemia

Specificity

The mouse monoclonal antibody MEM-81 recognizes classical MHC Class I molecules in native cell-surface forms. MHC Class I molecules (MHC Class Ia) are expressed on the surface of human nucleated cell types.

Contact Information:

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Application

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

- Flow cytometry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

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

HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant β 2-microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for anti-viral and anti-tumor defense. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules.

References

- Frank I, Stoiber H, Godar S, Stockinger H, Steindl F, Katinger HW, Dierich MP: Acquisition of host cell-surface-derived molecules by HIV-1. AIDS. 1996 Dec; 10(14):1611-20. < PMID: 8970680 >
- Valenzuela NM, Mulder A, Reed EF: HLA class I antibodies trigger increased adherence of monocytes to endothelial cells by eliciting an increase in endothelial P-selectin and, depending on subclass, by engaging Fc γ Rs.. J Immunol. 2013 Jun 15; 190(12):6635-50. < PMID: 23690477 >

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

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