TECHNICAL DATA SHEET

CyFlow™ CD59 Alexa Fluor™ 647
Anti-Hu; Clone MEM-43

REF **BE560278**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD59
Alternative Names	Protectin H19
Clone	MEM-43
Clonality	monoclonal
Format	Alexa Fluor™ 647
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Thymocytes and T lymphocytes

Specificity

The mouse monoclonal antibody MEM-43 recognizes well defined epitope (W40, R-53) on CD59 antigen, an 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈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

CD59 (Protectin) is a small (18-20 kDa) GPI-anchored ubiquitously expressed inhibitor of the membrane attack complex (MAC). It is thus the key regulator that preserves the autologous cells from terminal effector mechanism of the complement cascade. CD59 associates with C5b-8 complex and thereby counteracts appropriate formation of cytolytic pore within the plasma membrane. CD59 is also an low-affinity ligand of human CD2 and causes T cell costimulation.

References

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

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