

TECHNICAL DATA SHEET

CyFlow™ CD59 Azide Free Anti-Hu; Clone MEM-129

REF BR267721

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

Specifications

Antigen	CD59
Alternative Names	Protectin H19
Clone	MEM-129
Clonality	monoclonal
Format	Azide Free
Host / Isotype	Mouse / IgM
Species Reactivity	Human, Pig
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human peripheral blood lymphocytes

Specificity

The mouse monoclonal antibody MEM-129 recognizes CD59 antigen, a 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

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

- Flow cytometry
- Functional assays

Storage Buffer

The reagent is provided in azide-free HEPES buffered saline (HBS) solution, pH \approx 7.0; 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

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 a low-affinity ligand of human CD2 and causes T cell costimulation.

References

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- Stulnig TM, Berger M, Sigmund T, Stockinger H, Horejsí V, Waldhäusl W: Signal transduction via glycosyl phosphatidylinositol-anchored proteins in T cells is inhibited by lowering cellular cholesterol. J Biol Chem. 1997 Aug 1; 272(31):19242-7. < PMID: 9235917 >
- Baalasubramanian S, Harris CL, Donev RM, Mizuno M, Omidvar N, Song WC, Morgan BP: CD59a is the primary regulator of membrane attack complex assembly in the mouse. J Immunol. 2004 Sep 15; 173(6):3684-92. < PMID: 15356114 >

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

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