

TECHNICAL DATA SHEET

CyFlow™ CD46 Pacific Blue™ Anti-Hu; Clone MEM-258

REF BR054880

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

Specifications

Antigen	CD46
Alternative Names	MCP
Clone	MEM-258
Clonality	monoclonal
Format	Pacific Blue™
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Cow
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	HPB-ALL human T cell line

Specificity

The mouse monoclonal antibody MEM-258 recognizes an epitope on SCR4 (the membrane-proximal SCR) domain of CD46 antigen, a 56-66 kDa dimeric transmembrane protein expressed on T and B

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lymphocytes, platelets, monocytes, granulocytes, endothelial cells, epithelial cells and fibroblast; it is negative on erythrocytes.

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 10⁶ 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

CD46 (MCP; membrane cofactor protein) is a multifunctional cell surface transmembrane protein that binds and inactivates C3b and C4b complement fragments, regulates T cell-induced inflammatory responses by either inhibiting (CD46-1 isoform) or increasing (CD46-2 isoform) the contact hypersensitivity reaction. CD46 also serves as a receptor for several human pathogens (both bacteria and viruses), and its ligation alters T lymphocyte polarization toward antigen-presenting cells or target cells, inhibiting lymphocyte function. CD46 is a protector of placental tissue and is also expressed on the inner acrosomal membrane of spermatozoa.

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