

PB-342-T025

Monoclonal Antibody to CD46 Pacific Blue™ conjugated (25 tests)

Clone: MEM-258
Isotype: Mouse IgG1

Specificity: The antibody MEM-258 recognizes an epitope on SCR4 (the membrane-proximal

SCR) domain of CD46 (Membrane cofactor protein). CD46 is 56-66 kDa dimeric transmembrane protein expressed on T and B lymphocytes, platelets, monocytes, granulocytes, endothelial cells, epithelial cells and fibroblast; it is negative on

erythrocytes.

Regulatory Status: RUO

Immunogen: HPB-ALL human T cell line

Species Reactivity: Human, Bovine

Preparation: The purified antibody is conjugated with Pacific Blue™ under optimum conditions.

The conjugate is purified by size-exclusion chromatography and adjusted for direct

use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4

μl reagent / 100 μl of whole blood or 10⁶ cells in a suspension.

The content of a vial (0.1 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

Background: 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 alteres 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.



PRODUCT DATA SHEET

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