

TECHNICAL DATA SHEET

CyFlow™ Perforin PE Anti-Hu; Clone dG9

REF AC676621

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

Specifications

Antigen	Perforin
Alternative Names	—
Clone	dG9
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human, Cow
Negative Species Reactivity	Mouse
Quantity	100 tests
Immunogen	Purified granules from human YT lymphoma cell line

Specificity

The mouse monoclonal antibody dG9 (δG9) recognizes perforin, a 70 kDa protein expressed in cytoplasmic granules of cytotoxic T cells and NK cells.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 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

Perforin is a 70 kDa cytolytic protein with structural and functional similarities to complement component 9 (C9). It is stored in cytoplasmic granules of cytotoxic T cells and NK cells and after its release it forms transmembrane pores in the target cells to kill it. As perforin is a key effector molecule for cell-mediated cytotoxicity, defects of its gene can cause severe disorders.

References

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- Vargas-Inchaustegui DA, Demberg T, Robert-Guroff M: A CD8α(-) subpopulation of macaque circulatory natural killer cells can mediate both antibody-dependent and antibody-independent cytotoxic activities. Immunology. 2011 Nov; 134(3):326-40. < PMID: 21978002 >
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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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