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30-2839: Anti-Perforin FITC MAb (Clone: dG9)

Clonality :	Monoclonal
Clone Name :	dG9
Application :	FACS
Reactivity :	Human,Bovine
Conjugate :	FITC
Gene :	PRF1
Gene ID :	5551
Uniprot ID :	P14222
Alternative Name :	PRF1, P1, PFP, HPLH2,Perforin 1
Isotype :	Mouse IgG2b kappa
Immunogen Information :	Purified granules from human YT lymphoma cell line

Description

Specificity: The mouse monoclonal antibody dG9 (also known as deltaG9) recognizes perforin, a 70 kDa protein expressed in cytoplasmic granules of cytotoxic T cells and NK cells.
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 cytolysis, defects of its gene can cause severe disorders.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer : Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 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. Intracellular staining.

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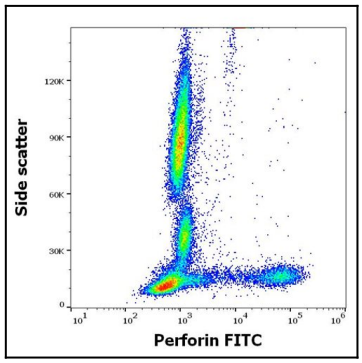

Figure 1: Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human Perforin (dG9) FITC antibody (4 Î¼l reagent / 100 Î¼l of peripheral whole blood).

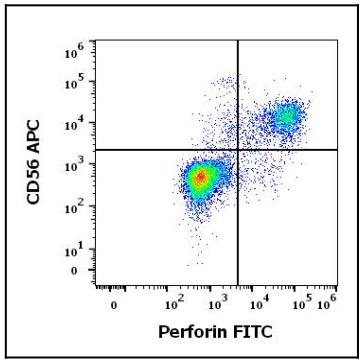

Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD56 (LT56) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood) and intracellular staining of human lymphocytes using anti-human Perforin (dG9) FITC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

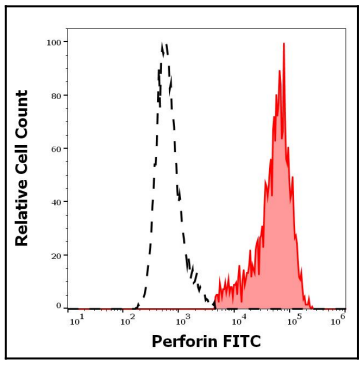

Figure 3: Separation of human Perforin positive CD56 positive lymphocytes (red-filled) from Perforin negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human Perforin (dG9) FITC antibody (4 Î¼l reagent / 100 Î¼l of peripheral whole blood).