

Datasheet for ABIN7506004
anti-Perforin 1 antibody (FITC)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 tests
Target:	Perforin 1 (PRF1)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Perforin 1 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Perforin FITC
Immunogen:	purified granules from human YT lymphoma cell line
Clone:	DG9
Isotype:	IgG2b kappa
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.
No Cross-Reactivity:	Mouse
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

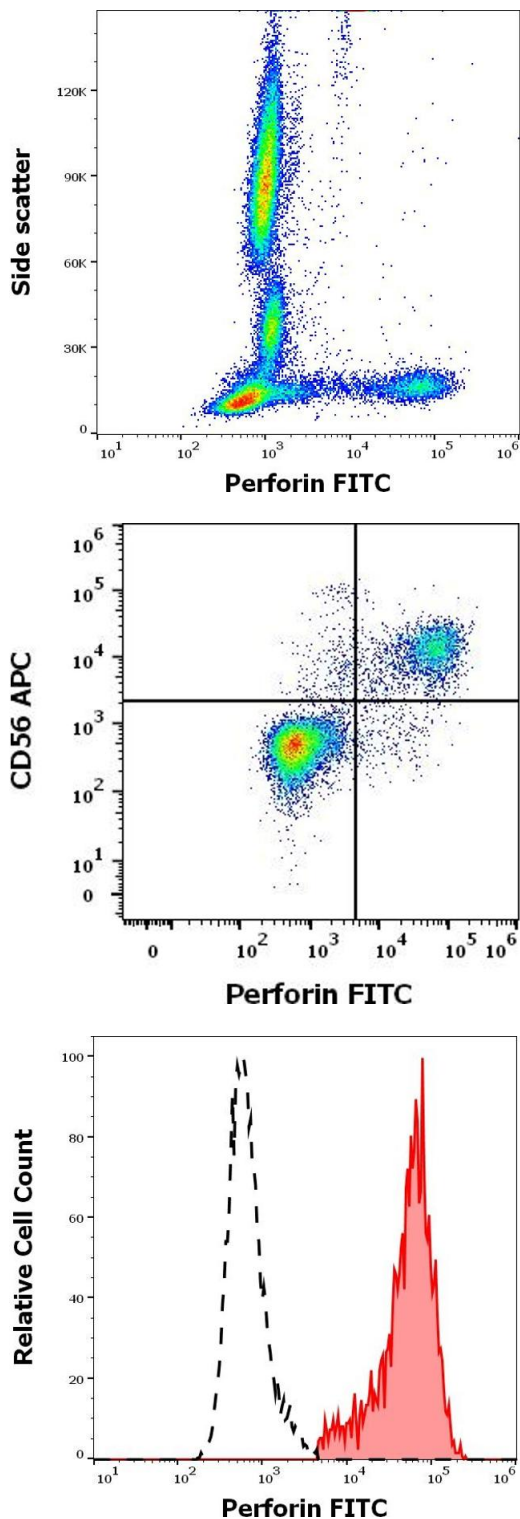
Target:	Perforin 1 (PRF1)
Alternative Name:	Perforin (PRF1 Products)
Background:	Perforin 1, Perforin is a 70 kDa cytolytic protein with structural and functional similarities to complement component 9 (C9). It is stored in cytoplasmic granules of cytotoxic T cells and NK cells and after its release 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., PRF1, P1, PFP, HPLH2
Gene ID:	5551
UniProt:	P14222
Pathways:	Apoptosis , Caspase Cascade in Apoptosis

Application Details

Application Notes:	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.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

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

Flow Cytometry

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

Flow Cytometry

Image 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 μ L reagent / 100 μ L of peripheral whole blood).