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anti-Perforin 1 antibody (APC)

3 Images



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Overview

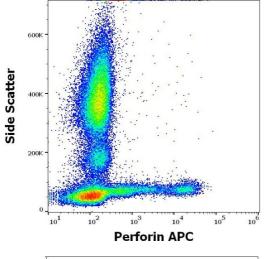
Quantity:	100 tests
Target:	Perforin 1 (PRF1)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Perforin 1 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

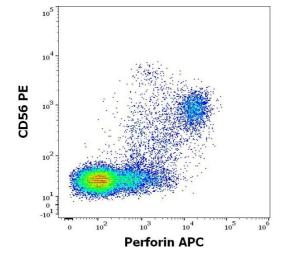
Product Details

Purpose:	Anti-Perforin APC
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 activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

9	
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 cytolysis, 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 10 µL reagent
	/ 100 μL of whole blood or 10^6 cells in a suspension. The content of a vial (1 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-Perforin (dG9) APC antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

Flow Cytometry

Image 2. Separation of human Perforin positive CD56 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-Perforin (dG9) APC antibody ($10 \mu L$ reagent / $100 \mu L$ of peripheral whole blood).

Flow Cytometry

Image 3. Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD56 (LT56) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood) and intracellular staining using anti-Perforin (dG9) APC antibody (10 μ L reagent / 100 μ L of peripheral whole blood).