

Datasheet for ABIN1981897

anti-Perforin 1 antibody (PE)[Go to Product page](#)**1** Image**3** Publications

Overview

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

Product Details

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
Cross-Reactivity (Details):	Human, Bovine
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. 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 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.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
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.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Storage:	4 °C

Handling

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

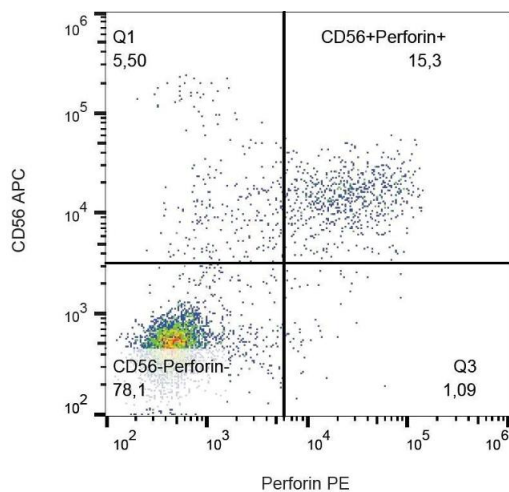
Publications

Product cited in: Qiu, Chen, Liao, Zhang, Wang, Li, Luo, Fang, Li, Zhou, Shen, Chen, Huang, Cai, Cao, Jiang, Zeng, Chen: "Tim-3-expressing CD4+ and CD8+ T cells in human tuberculosis (TB) exhibit polarized effector memory phenotypes and stronger anti-TB effector functions." in: **PLoS pathogens**, Vol. 8, Issue 11, pp. e1002984, (2012) ([PubMed](#)).

Takeuchi, Inoue, Otani, Yamasaki, Nakamura, Kibata: "Cell-in-cell structures formed between human cancer cell lines and the cytotoxic regulatory T-cell line HOZOT." in: **Journal of molecular cell biology**, Vol. 2, Issue 3, pp. 139-51, (2010) ([PubMed](#)).

Hersperger, Makedonas, Betts: "Flow cytometric detection of perforin upregulation in human CD8 T cells." in: **Cytometry. Part A : the journal of the International Society for Analytical Cytology**, Vol. 73, Issue 11, pp. 1050-7, (2008) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Intracellular staining of perforin in human peripheral blood cells with anti-perforin (dG9) PE.