## .-online.com antibodies

# Datasheet for ABIN1981903 anti-Perforin 1 antibody

3 Images

4 Publications



#### Overview

Quantity:	0.1 mg
Target:	Perforin 1 (PRF1)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Perforin 1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p))

### Product Details

Immunogen:	purified granules from human YT lymphoma cell line
Clone:	DG9
lsotype:	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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN1981903 | 03/05/2024 | Copyright antibodies-online. All rights reserved.

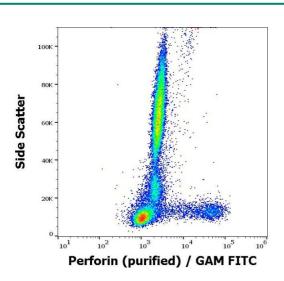
Target Details	
Target:	Perforin 1 (PRF1)
Alternative Name:	Perforin (PRF1 Products)
Background:	Perforin 1,Perforin is a 70 kDa cytolytic protein with structural and functional similarities to complement component 9 (C9). It is stored in cytoplasmic granules of cytotoxic T cells and NF cells and after 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: Recommended dilution: 3-12 µg/mL. Intracellular staining.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 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. Do not use after expiration date stamped on vial label.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.
Publications	
Product cited in:	Li, Jeong, Song: "Molecular Characteristics and Distribution of Adult Human Corneal Immune Cell Types." in: , Vol. 13, pp. 798346, (2022) (PubMed).

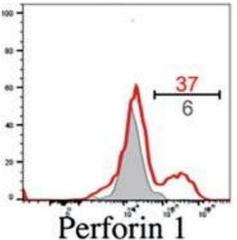
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN1981903 | 03/05/2024 | Copyright antibodies-online. All rights reserved. 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





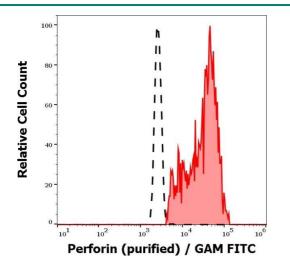
#### Flow Cytometry

**Image 1.** Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human Perforin (dG9) purified antibody (concentration in sample 2 µg/mL, GAM FITC).

#### **Flow Cytometry**

**Image 2.** Antiviral effector CD8+ T cells are a predominant lymphocyte subset on the cornea. Expressions of Perforin 1 on corneal CD8+ T cells by flow cytometry. Source: PMID35280984

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN1981903 | 03/05/2024 | Copyright antibodies-online. All rights reserved. Images



#### **Flow Cytometry**

**Image 3.** Separation of perforin positive lymphocytes (redfilled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracelluar staining) of human peripheral whole blood using anti-human perforin (dG9) purified antibody (concentration in sample 2 µg/mL, GAM FITC).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN1981903 | 03/05/2024 | Copyright antibodies-online. All rights reserved.