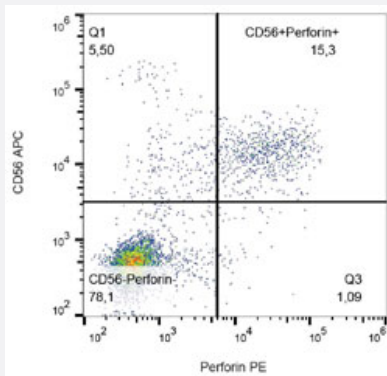


PRF1 monoclonal antibody, clone dG9

Catalog # MAB16950 Size 100 ug

Applications



Flow Cytometry

Flow cytometric analysis (intracellular staining) of human peripheral blood cells with anti-human PRF1 PE.

Specification

Product Description	Mouse monoclonal antibody raised against native human PRF1.
Immunogen	Native purified granules from human YT lymphoma cell line.
Host	Mouse
Reactivity	Bovine, Human
Specificity	This antibody recognizes perforin, a 70 kDa protein expressed in cytoplasmic granules of cytotoxic T cells and NK cells.
Form	Liquid
Purification	Protein A purification
Isotype	IgG2b
Recommend Usage	Flow Cytometry Immunoprecipitation Immunohistochemistry (Frozen sections) (Formalin/PFA-fixed paraffin-embedded sections) Immunocytochemistry The optimal working dilution should be determined by the end user.

Storage Buffer	In TBS, pH 8.0 (15 mM sodium azide).
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Flow cytometric analysis (intracellular staining) of human peripheral blood cells with anti-human PRF1 PE.

Gene Info — PRF1

Entrez GeneID	5551
Gene Name	PRF1
Gene Alias	FLH2, HPLH2, MGC65093, P1, PFN1, PFP
Gene Description	perforin 1 (pore forming protein)
Omim ID	170280 603553 605027
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in this gene cause familial hemophagocytic lymphohistiocytosis type 2 (HPLH2), a rare and lethal autosomal recessive disorder of early childhood. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq]
Other Designations	OTTHUMP00000019759 cytolysin lymphocyte pore forming protein perforin 1

Publication Reference

- [Tim-3-expressing CD4+ and CD8+ T cells in human tuberculosis \(TB\) exhibit polarized effector memory phenotypes and stronger anti-TB effector functions.](#)

Qiu Y, Chen J, Liao H, Zhang Y, Wang H, Li S, Luo Y, Fang D, Li G, Zhou B, Shen L, Chen CY, Huang D, Cai J, Cao K, Jiang L, Zeng G, Chen ZW.

PLoS Pathogens 2012 Nov; 8(11):e1002984.

Application: Flow Cyt, Human, Human PBMCs

- [A CD8 \$\alpha\$ \(-\) subpopulation of macaque circulatory natural killer cells can mediate both antibody-dependent and antibody-independent cytotoxic activities.](#)

Diego A Vargas-Inchaustegui, Thorsten Demberg, and Marjorie Robert-Guroff.

Immunology 2011 Nov; 134(3):326.

Application: Flow Cyt, Monkey, NK cells

- [Cell-in-cell structures formed between human cancer cell lines and the cytotoxic regulatory T-cell line HOZOT.](#)

Makoto Takeuchi, Toshiya Inoue, Takeshi Otani, Fumiyuki Yamasaki, Shuji Nakamura, Masayoshi Kibata.

Molecular and Cellular Biology 2010 Jun; 2(3):139.

Application: IF, Mouse, HOZOT cells

- [Flow cytometric detection of perforin upregulation in human CD8 T cells.](#)

Adam R. Hersperger, George Makedonas, Michael R. Betts.

Cytometry. Part A : the Journal of the International Society for Analytical Cytology 2008 Nov; 73(11):1050.

Application: Flow Cyt, Human, PBMCs

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Graft-versus-host disease](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Type I diabetes mellitus](#)

Disease

- [Alzheimer Disease](#)
- [Arthritis](#)

- [Asthma](#)
- [Autoimmune Diseases](#)
- [Bronchiolitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Epstein-Barr Virus Infections](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [HTLV-I Infections](#)
- [Infant](#)
- [Leukemia](#)
- [Lymphohistiocytosis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Macrophage Activation Syndrome](#)
- [Multiple Sclerosis](#)
- [Respiratory Syncytial Virus Infections](#)