Perforin Monoclonal Antibody (dG9 (delta G9)), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Pig
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	dG9 (delta G9)
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574145

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	7 Publications

Product Specific Information

Description: The dG9 antibody clone reacts with human perforin (pore-forming protein, pfp). Perforin is one of the cytolytic mediators present in the cytoplasmic granules of cytotoxic T lymphocytes (CTL) and natural killer cells (NK). Perforin is involved in the killing function by CTLs and NKs and has an important role in the immune response against tumors and virus infections.

Applications Reported: This dG9 (delta G9) antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

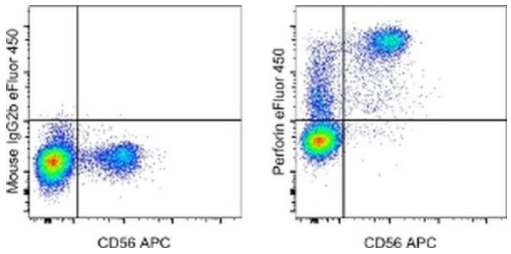
Applications Tested: This dG9 (delta G9) antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of normal human peripheral blood cells using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resource Tab online. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Perforin Monoclonal Antibody (dG9 (delta G9)), eFluor™ 450, eBioscience™



Perforin Antibody (48-9994-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) APC (Product # 17-0567-42) and Mouse IgG2b K Isotype Control eFluor® 450 (Product # 48-4732-82) (left) or Anti-Human Perforin eFluor® 450 (right) using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

9 References

Immunohistochemistry (2)

Nature communications

Year 2022

Single-cell transcriptomics links malignant T cells to the tumor immune landscape in cutaneous T cell lymphoma.

"Published figure using Perforin monoclonal antibody (Product # 48-9994-42) in Immunohistochemistry"

Authors: Liu X,Jin S,Hu S,Li R,Pan H,Liu Y,Lai P,Xu D,Sun J,Liu Z,Gao Y,Zhao Y,Liu F,Xiao Y,Li Y,Wen Y,Chen Z,Xu B,Lin Y,Ran M,Li Q,Yang S,Li H,Tu P,Haniffa M,Teichmann SA,Bai F,Wang Y

Science translational medicine

Year 2013

Lipoxin A4 regulates natural killer cell and type 2 innate lymphoid cell activation in asthma.

"Published figure using Perforin monoclonal antibody (Product # 48-9994-42) in Immunofluorescence"

Authors: Barnig C,Cernadas M,Dutile S,Liu X,Perrella MA,Kazani S,Wechsler ME,Israel E,Levy BD

Flow Cytometry (7)

Cancer immunology research

Year 2023

CD8+ T cell-Dependent Remodeling of the Tumor Microenvironment Overcomes Chemoresistance.

"Published figure using Perforin monoclonal antibody (Product # 48-9994-42) in Flow Cytometry"

Authors: Lao L,Zeng W,Huang P,Chen H,Jia Z,Wang P,Huang D,Chen J,Nie Y,Yang L,Wu W,Liu J

JCI insight

Year 2023

Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes.

"Published figure using Perforin monoclonal antibody (Product # 48-9994-42) in Flow Cytometry"

Authors: Zhang M,Chong KK,Chen ZY,Guo H,Liu YF,Kang YY,Li YJ,Shi TT,Lai KK,He MQ,Ye K,Kahaly GJ,Shi BY,Wang Y

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