

Purified anti-human Perforin

Catalog # / Size: 308101 / 25 µg
308102 / 100 µg

Clone: dG9

Isotype: Mouse IgG2b, κ

Immunogen: Purified granules from the human lymphoma cell line

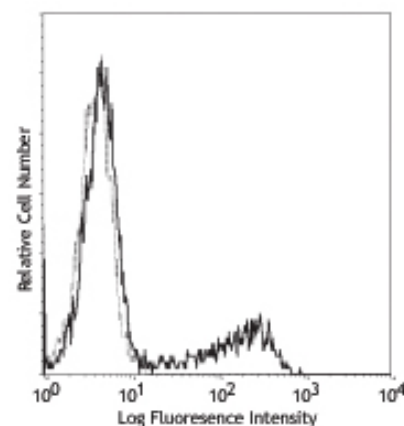
Reactivity: Human, **Cross-Reactivity:** Bovine (Cow, Cattle); does not cross-react with mouse¹.

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Whole blood lymphocytes stained intracellularly with dG9 FITC

Applications:

Applications: ICFC - *Quality tested*
IP, IF, IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation, intracellular flow cytometric analysis and immunofluorescence microscopy^{5,7}, and immunohistochemical staining of acetone-fixed frozen tissue sections and formalin-fixed paraffin-embedded tissue sections^{1,4}.

Application References:

- Hameed A, *et al.* 1992. *Am. J. Pathol.* 140:1025. (IHC)
- Schaerli P, *et al.* 2004. *J. Exp. Med.* 199:1265.
- Watanabe N, *et al.* 1997. *Blood* 90:3662.
- Mauad T, *et al.* 2004. *Pediatr. Pulmonol.* 38:233. (IHC)
- Barrat FJ, *et al.* 1999. *P. Natl. Acad. Sci. USA* 96:8645. (IF)
- Chen H, *et al.* 2005. *J. Immunol.* 175:591.
- Bryceson YT, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074468. (IF)
- Wood SM, *et al.* 2009. *Blood* 114:4117. PubMed

Description: Perforin is a 70 kD cytolytic protein that is expressed in the cytoplasmic granules of cytotoxic T lymphocytes (CTLs) and natural killer (NK) cells. Perforin is one of the major effector molecules used by cytotoxic T cells and NK cells to mediate targeted cell lysis.

Antigen References:

- Lieberman J. 2003. *Nat. Rev. Immunol.* 3:361.
- Trapani J, *et al.* 2002. *Nat. Rev. Immunol.* 2:735.

Related Products: Product

Product	Clone	Application
APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Biotin Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC, ELISA, IHC, IF, WB
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Purified Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC, ICC, IF, IHC, IP, WB
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified anti-human Granzyme A	CB9	ICFC, IP, IHC



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