

PE/Cy7 anti-human Perforin

Catalog # / Size: 2140625 / 25 tests
2140630 / 100 tests

Clone: dG9

Isotype: Mouse IgG2b, κ

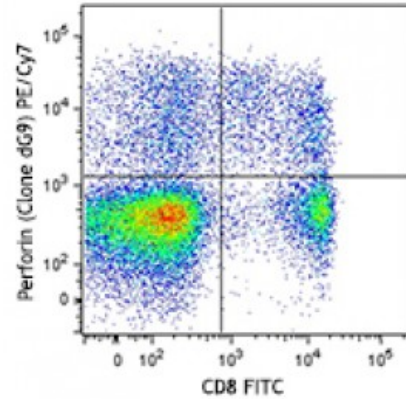
Immunogen: Purified granules from the human lymphoma cell line

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific

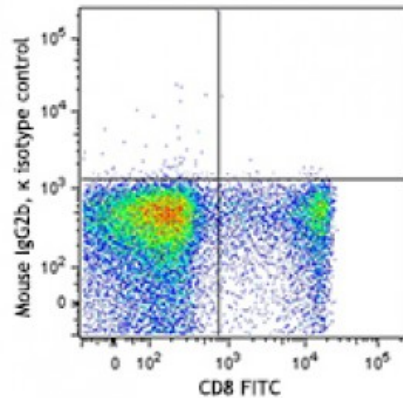


Human peripheral blood lymphocytes were surface stained with CD8 FITC, fixed with Fixation Buffer, permeabilized with Permeabilization Wash Buffer, and then intracellularly stained with perforin (clone dG9) PE/Cy7 (top), or mouse IgG2b, κ PE/Cy7 iso

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes: Clone dG9 primarily recognizes perforin associated with cytotoxic granules⁹. 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}.

Does not cross-react with mouse¹.

Application References: 1. Hameed A, *et al.* 1992. *Am. J. Pathol.* 140:1025. (IHC)
2. Schærli P, *et al.* 2004. *J. Exp. Med.* 199:1265.
3. Watanabe N, *et al.* 1997. *Blood* 90:3662.

4. Mauad T, *et al.* 2004. *Pediatr. Pulmonol.* 38:233. (IHC)
 5. Barrat FJ, *et al.* 1999. *P. Natl. Acad. Sci. USA* 96:8645. (IF)
 6. Chen H, *et al.* 2005. *J. Immunol.* 175:591.
 7. Bryceson YT, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074468. (IF)
 8. Wood SM, *et al.* 2009. *Blood* 114:4117. [PubMed](#)
 9. Makedonas G, *et al.* 2010. *PLoS Pathog.* 6:e1000798.
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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** 1. Lieberman J. 2003. *Nat. Rev. Immunol.* 3:361.
- References:** 2. Trapani J, *et al.* 2002. *Nat. Rev. Immunol.* 2:735.