

PE anti-human Perforin

Catalog # / Size: 2140525 / 25 tests
2140530 / 100 tests

Clone: dG9

Isotype: Mouse IgG2b, κ

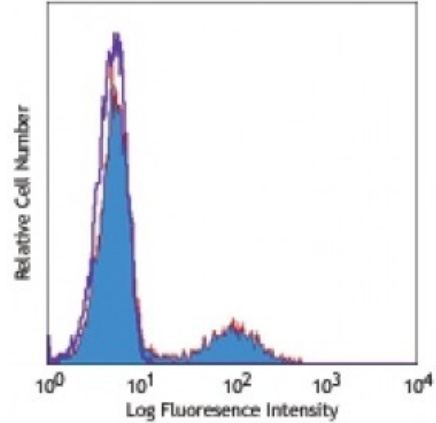
Immunogen: Purified granules from the human lymphoma cell line

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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 intracellularly stained with dG9 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or 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:

- 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](#)
- Makedonas G, *et al.* 2010. *PLoS Pathog.* 6:e1000798.

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.