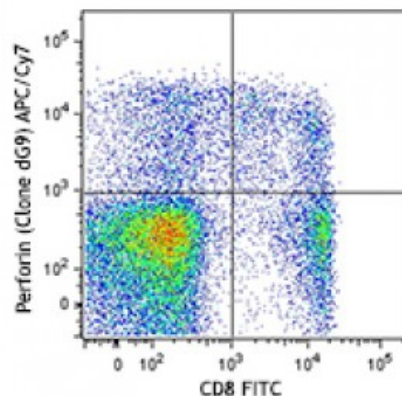


APC/Cy7 anti-human Perforin

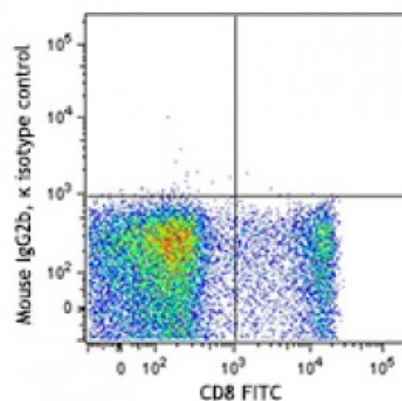
Catalog # / Size:	2140640 / 100 tests 2140635 / 25 tests
Clone:	dG9
Isotype:	Mouse IgG2b, κ
Immunogen:	Purified granules from the human lymphoma cell line
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/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 Intracellular Staining Permeabilization Wash Buffer (10X), and then intracellularly stained with Perforin (clone dG9) APC/Cy7 (top), or m

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 granules ⁹ . 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 mouse ^{>1</sup>.}



Application References:	1. Hameed A, <i>et al.</i> 1992. <i>Am. J. Pathol.</i> 140:1025. (IHC) 2. Schaerli P, <i>et al.</i> 2004. <i>J. Exp. Med.</i> 199:1265.
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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.
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 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
References: 1. Lieberman J. 2003. *Nat. Rev. Immunol.* 3:361.
2. Trapani J, *et al.* 2002. *Nat. Rev. Immunol.* 2:735.