

**PerCP/Cy5.5 anti-human Perforin**

<b>Catalog # / Size:</b>	2140565 / 25 tests 2140570 / 100 tests
<b>Clone:</b>	dG9
<b>Isotype:</b>	Mouse IgG2b, $\kappa$
<b>Immunogen:</b>	Purified granules from the human lymphoma cell line
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

<b>Application Notes:</b>	Clone dG9 primarily recognizes perforin associated with cytotoxic granules <sup>9</sup> . Additional reported applications (for the relevant formats) include: immunoprecipitation, intracellular flow cytometric analysis and immunofluorescence microscopy <sup>5,7</sup> , and immunohistochemical staining of acetone-fixed frozen tissue sections and formalin-fixed paraffin-embedded tissue sections <sup>1,4</sup> .
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Does not cross-react with mouse<sup>1</sup>.

<b>Application References:</b>	<ol style="list-style-type: none"><li>1. Hameed A, <i>et al.</i> 1992. <i>Am. J. Pathol.</i> 140:1025. (IHC)</li><li>2. Schaerli P, <i>et al.</i> 2004. <i>J. Exp. Med.</i> 199:1265.</li><li>3. Watanabe N, <i>et al.</i> 1997. <i>Blood</i> 90:3662.</li><li>4. Mauad T, <i>et al.</i> 2004. <i>Pediatr. Pulmonol.</i> 38:233. (IHC)</li><li>5. Barrat FJ, <i>et al.</i> 1999. <i>P. Natl. Acad. Sci. USA</i> 96:8645. (IF)</li><li>6. Chen H, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:591.</li><li>7. Bryceson YT, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2007-02-074468. (IF)</li><li>8. Wood SM, <i>et al.</i> 2009. <i>Blood</i> 114:4117. <a href="#">PubMed</a></li><li>9. Makedonas G, <i>et al.</i> 2010. <i>PLoS Pathog.</i> 6:e1000798.</li></ol>
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<b>Description:</b>	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
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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.