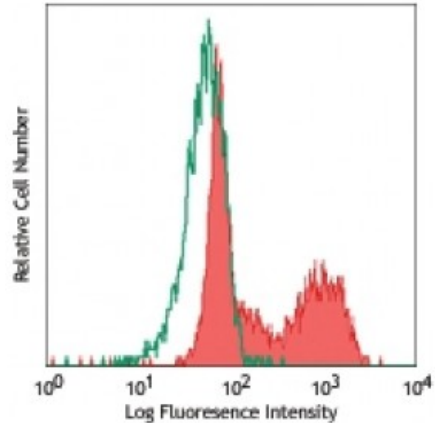


Alexa Fluor® 647 anti-human Perforin

Catalog # / Size:	2140550 / 100 tests 2140545 / 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 Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific

**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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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} .
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Does not cross-react with mouse¹.

Application References:	<ol style="list-style-type: none">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> 199:1265.3. Watanabe N, <i>et al.</i> 1997. <i>Blood</i> 90:3662.4. Mauad T, <i>et al.</i> 2004. <i>Pediatr. Pulmonol.</i> 38:233. (IHC)5. Barrat FJ, <i>et al.</i> 1999. <i>P. Natl. Acad. Sci. USA</i> 96:8645. (IF)6. Chen H, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:591.7. Bryceson YT, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2007-02-074468. (IF)8. Wood SM, <i>et al.</i> 2009. <i>Blood</i> 114:4117. PubMed9. Makedonas G, <i>et al.</i> 2010. <i>PLoS Pathog.</i> 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.
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- Antigen** 1. Lieberman J. 2003. *Nat. Rev. Immunol.* 3:361.
- References:** 2. Trapani J, *et al.* 2002. *Nat. Rev. Immunol.* 2:735.