

Product Data Sheet

Alexa Fluor® 647 anti-human Perforin

Catalog # / Size: 308109 / 25 tests

308110 / 100 tests

Clone: dG9

Isotype: Mouse IgG2b, κ

Immunogen: Purified granules from the human lymphoma cell line

Reactivity: Human, Cross-Reactivity: Bovine (Cow, Cattle); does not cross-react with

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of

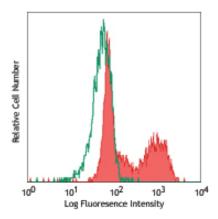
unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Human peripheral blood mononuclear cells intracellular stained with DG9 Alexa Fluor® 647

Applications:

Applications: ICFC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl

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.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and

high content screening, and are covered by pending and issued patents.

Application Notes: 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}.

Application References: 1. Hameed A, *et al.* 1992. *Am. J. Pathol.* 140:1025. (IHC) 2. Schaerli 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. Qu B, et al. 2011. J. Immunol. 186:6894. PubMed.

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.

Related Products: Product Clone Application

Cell Staining Buffer FC, ICC, ICFC FC, ICFC Alexa Fluor® 647 Mouse IgG2b, κ Isotype Ctrl MPC-11 FC, ICC, ICFC Human TruStain FcX™ (Fc Receptor Blocking Solution)



