

Pacific Blue™ anti-mouse Perforin Antibody

Catalog# / Size	154407 / 25 µg 154408 / 100 µg
Clone	S16009B
Regulatory Status	RUO
Other Names	Prf1, Pfp, Pfn, Pfn-1
Isotype	Rat IgG2a, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse perforin transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	<p>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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone S16009B reacts with perforin from both C57BL/6 and BALB/c strains.
RRID	AB_2910316 (BioLegend Cat. No. 154407) AB_2910316 (BioLegend Cat. No. 154408)

Antigen Details

Structure	70 kD Protein that oligomerizes for pore formation.
Distribution	CTL, NK (Cytoplasmic Granules)

Function	Target cell lysis
Cell Type	NK cells, T cells
Biology Area	Immunology
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Podack ER, et al, 1988, <i>Immunol Rev</i>, 103:203 2. Konjar S, et al, 2010. <i>Immunology</i>, 131:257 3. Trapani JA, et al, 2002, <i>Nat Rev Immunol</i>, 2:735 4. Osinska I, et al. 2014, <i>Cent Eur J Immunol</i>, 39:109
Gene ID	18646

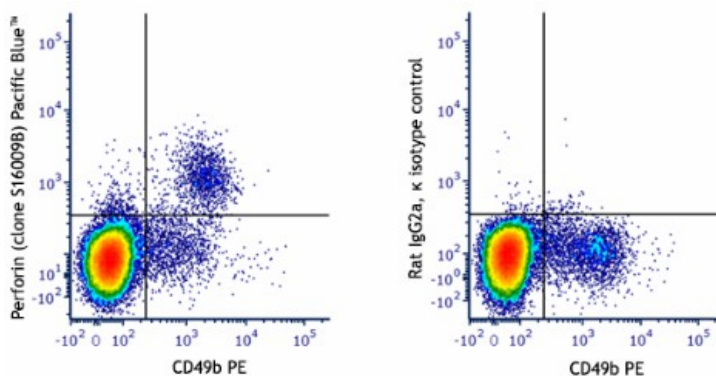
Related Protocols

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Perforin, APC anti-mouse Perforin, PE anti-mouse Perforin, Pacific Blue™ anti-mouse Perforin

Product Data



C57BL/6 splenocytes were stained with anti-mouse CD49b PE, fixed, permeabilized, and then stained with anti-mouse Perforin (clone S16009B) Pacific Blue™ (left) or rat IgG2a, κ Pacific Blue™ isotype control (right).

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