

PE/Dazzle™ 594 anti-mouse Perforin Antibody

Catalog# / Size	154315 / 25 µg 154316 / 100 µg
Clone	S16009A
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 PE/Dazzle™ 594 under optimal conditions.
Concentration	0.2 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	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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone S16009A reacts with perforin from both C57BL/6 and BALB/c strains.
RRID	AB_2922482 (BioLegend Cat. No. 154315) AB_2922482 (BioLegend Cat. No. 154316)

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

1. Podack ER, *et al.* 1988. *Immunol. Rev.* 103:203.
2. Konjar S, *et al.* 2010. *Immunology.* 131:257.
3. Trapani JA, *et al.* 2002. *Nat. Rev. Immunol.* 2:735.
4. Osinska I, *et al.* 2014. *Cent. Eur. J. Immunol.* 39:109.

Gene ID [18646](#)

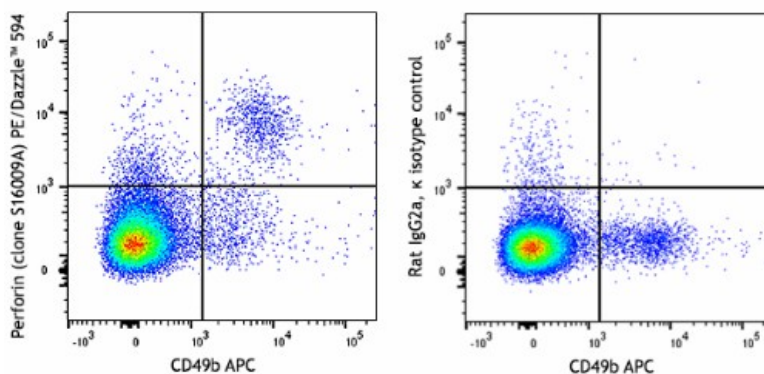
Related Protocols

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse Perforin, PE anti-mouse Perforin, Purified anti-mouse Perforin, FITC anti-mouse Perforin, PE/Dazzle™ 594 anti-mouse Perforin, APC/Fire™ 750 anti-mouse Perforin, Pacific Blue™ anti-mouse Perforin, Alexa Fluor® 647 anti-mouse Perforin

Product Data



C57BL/6 splenocytes were stained with anti-mouse CD49b (clone DX5) APC. Cells were fixed, permeabilized, and stained with anti-mouse Perforin (clone S16009A) PE/Dazzle™ 594 (left) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (right).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587