

Spark Red™ 718 anti-mouse Perforin Antibody

Catalog# / Size	154323 / 25 µg 154324 / 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 Spark Red™ 718 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	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. * Spark Red™ 718 has a maximum excitation of 697 nm and a maximum emission of 711 nm.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone S16009A reacts with perforin from both C57BL/6 and BALB/c strains.

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](#)

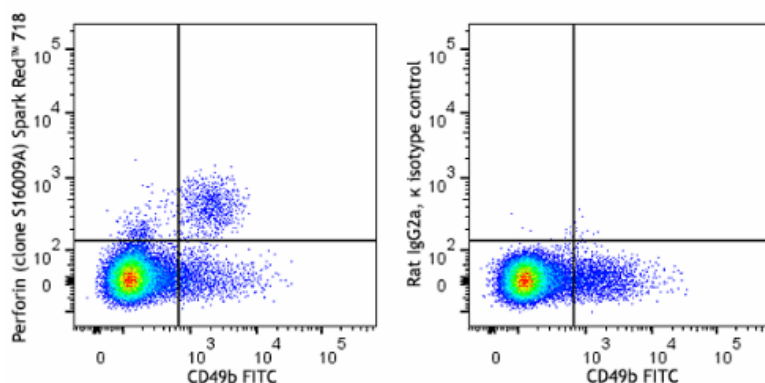
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE/Dazzle™ 594 anti-mouse Perforin, APC/Fire™ 750 anti-mouse Perforin, FITC anti-mouse Perforin, Pacific Blue™ anti-mouse Perforin, Alexa Fluor® 647 anti-mouse Perforin, Brilliant Violet 421™ anti-mouse Perforin, Purified anti-mouse Perforin, APC anti-mouse Perforin, PE anti-mouse Perforin, TotalSeq™-C1545 anti-mouse Perforin Antibody, Spark Red™ 718 anti-mouse Perforin Antibody

Product Data



C57BL/6 splenocytes were surface stained with anti-mouse CD49b (clone DX5) FITC. Cells were then fixed and permeabilized with Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803) and intracellularly stained with anti-mouse Perforin (clone S16009A) Spark Red™ 718 (left) or rat IgG2a, κ Spark Red™ 718 isotype control (right).

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